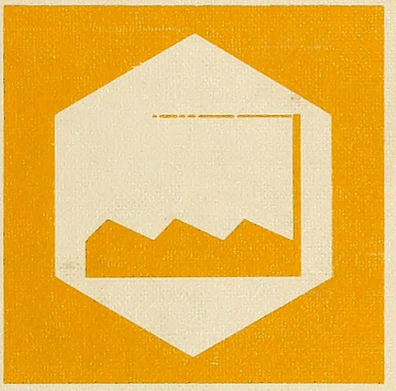
1963

CENSUS OF MANUFACTURES



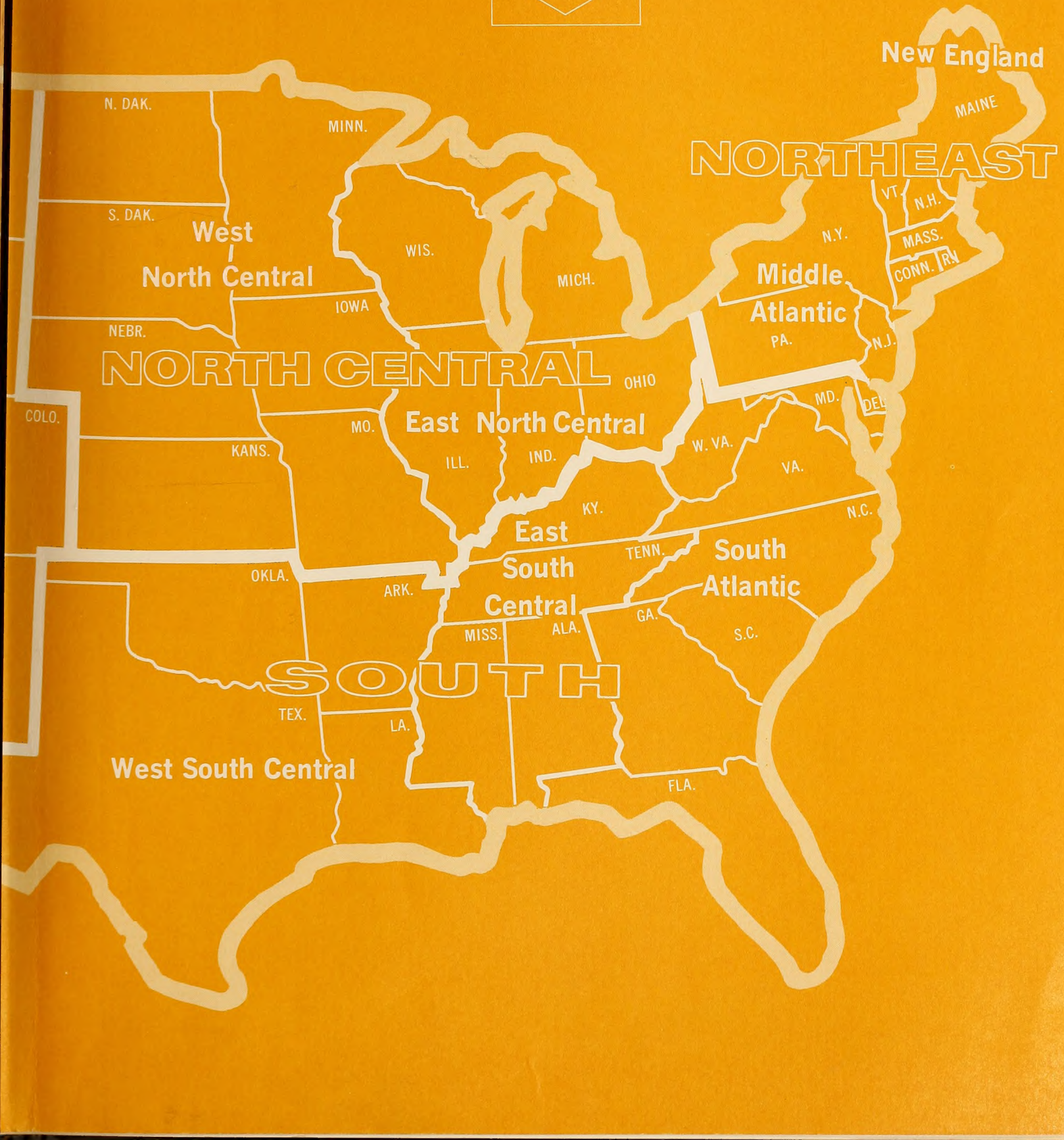
I

SUMMARY AND SUBJECT STATISTICS

CENSUS REGIONS AND GEOGRAPHIC DIVISIONS



OF THE UNITED STATES





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1963 CENSUS OF MANUFACTURES

Volume I

Summary and Subject Statistics



U.S. DEPARTMENT OF COMMERCE
John T. Connor, Secretary
William H. Shaw, Asst. Secy., Economic Affairs
BUREAU OF THE CENSUS
A. Ross Eckler, Director

Bureau of the Census
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Acknowledgments

The 1963 Census of Manufactures was conducted under the direction of **Maxwell R. Conklin,** Chief, and **Owen C. Gretton,** Assistant Chief, of the Industry Division. Within the Industry Division, program responsibility along industry lines was shared by the following individuals who participated importantly in the entire census program: **Willis K. Jordan,** Foods, Textiles, and Apparel; **Cyril M. Wildes,** Lumber, Paper, and Chemicals; and **Paul F. Berard** and **Clarence H. Olsen,** Metals, Machinery, and Equipment. **Edward A. Robinson** was responsible for the concepts and definitions of establishment-type data, for preparation of the introductory text to the volumes, and for planning the content of the statistical tables in the area and subject reports.

Louis J. Owen, Assistant Chief for Production and Process Statistics, was responsible for the concepts followed in the product and materials inquiries and for the data on industrial water consumption and fuels and electric energy used. **Jack L. Ogus,** Assistant Chief for Statistical Methods, assisted by **Donald F. Clark,** was responsible for statistical methods and sampling techniques. **Elmer S. Biles** played an important role in developing the criteria for reviewing the tabulated data and supervised the review of the geographic statistics and much of the subject-volume materials for completeness and accuracy. **Frank A. Hanna,** a consultant to the Bureau of the Census, assisted in writing portions of the text.

William Cooper supervised the application of the system of industrial classification of establishments. **Robert Torene** made important contributions to the geographic statistics volume as well as to other phases of the census, and **William R. Gray** and **Kenneth R. Brimmer** made similar contributions to the product and materials inquiries. **Alan I. Blum** coordinated the work of the Division's professional staff at the Jeffersonville, Ind., Operations Office. The preparation of the manuscript for printing, within the Industry Division was the responsibility of **Angela R. Daly.**

Professional personnel in the commodity areas of the Industry Division developed the report forms for the various industries, reviewed the tabulations, and prepared the industry texts that accompanied the data. The respective areas and the individuals in charge during the census were as follows: Foods, **John S. Berube** and **Charles A. Nicholls;** Textiles, **Robert J. Nealon;** Apparel, **Evelyn W. Colburn;** Lumber and Furniture, **Robert E. Bates;** Paper, Printing, and Publishing, **Lawrence J. LaMoure;** Chemicals, **Reese R. Morgan;** Nonmetallic Minerals, **Keith B. Willis;** Primary Metals and Intermediate Metal Products, **Malcolm E. Bernhardt;** Machinery, **Conrad J. Jacobs;** and Electrical Machinery and Transportation Equipment, **Bernard B. Bernsten.** The names of the supporting statisticians in the commodity areas who made significant contributions are shown in the acknowledgment statements appearing in the 80 industry reports published separately prior to their assembly into the Industry Volume.

Systems and procedures used in processing the reports were developed in the former Economic Operations Division. **Marion D. Bingham,** Chief, and in the present Systems Division, **Sol Dolleck,** Chief, assisted by **Samuel Schweid, Nathan Lesowitz,** and **Jack Margolis. Mary H. Johnson** and **Roger O. Lepage,** assisted by **Paul E. Poissant,** developed and supervised the computer programing under the direction of **Eugene L. Wendt.** Clerical procedures were developed by **Joseph N. Brooks** and **William W. Perry** under the supervision of **Carl Mueller.** Quality control plans and procedures were developed by **George Minton, Maxwell R. Jeane,** and **John F. Powell,** under the direction of **Herman H. Fasteau. Robert D. Krook,** Executive Officer, Census Operations Office at Jeffersonville, Ind., assisted by **Gene P. King** and **Waller Wynne, Jr.,** was responsible for the phases of the processing operations performed there. Data processing and related operations were performed by the former Data Processing Systems Division under **Robert F. Drury,** Chief.

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BUREAU OF THE CENSUS

A. Ross Eckler,
Director

Howard C. Grieves
Deputy Director

INDUSTRY DIVISION
Maxwell R. Conklin,
Chief

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Preface

This is one of a series of volumes presenting the final results of the 1963 Census of Manufactures. The quinquennial census for 1963 was a large-scale undertaking and its success depended upon important contributions from a large number of private and public individuals and organizations. An essential element in the census was the fine cooperation received from over 300,000 manufacturing establishments in completing the appropriate report forms.

The advice and counsel of trade associations, individual manufacturing companies, government agencies, and research organizations were most valuable in determining the content of the census reports, especially the product and materials inquiries. The Advisory Council on Federal Reports provided special assistance in determining the feasibility of collecting various types of data. Precensus exchanges of ideas with the Census advisory committees of the American Statistical Association, the American Economic Association, and the American Marketing Association contributed significantly to the planning phases of the census. Timely publicity was given the manufactures census by chambers of commerce, local newspapers, trade papers, and television and radio stations.

1963 Census of Manufactures Publication Program

Final results of the 1963 Census of Manufactures are published in three volumes, each containing a specific type of data.

VOLUME I. SUMMARY AND SUBJECT STATISTICS

In addition to a summary chapter presenting the basic data historically for industries and geographic areas, separate chapters present data on a subject basis. Chapter titles are as follows:

1. General Summary
2. Size of Establishments
3. Type of Organization
4. Manufacturers' Inventories
5. Expenditures for Plant and Equipment
6. Power Equipment in Manufacturing Industries
7. Fuels and Electric Energy
8. Selected Materials Consumed
9. Selected Metalworking Operations
10. Water Use in Manufacturing
11. Concentration Ratios in Manufacturing Industries

Three special reports are also included in this volume: Manufacturing Activitiy in Government Establishments, Shipments of Defense Oriented Industries, and Origin of Exports of Manufactured Products. Each of the chapters in this volume was previously published as a separate report (Series MC63(1)–, numbers 1 to 10. Chapter 11 was issued as a special report for the Senate Subcommittee on Antitrust and Monopoly.)

VOLUME II. INDUSTRY STATISTICS

This volume contains separate chapters for each of 80 groups of related industries which cover approximately 430 individual industries. Statistics are shown on detailed product shipments and materials consumption in terms of quantity and value, cost of fuels and electric energy, value added by manufacture, employment, payrolls, inventories, and capital expenditures. Selected statistics are included for earlier census years. This volume is published in two parts. Part 1 contains a general summary chapter and chapters for SIC Major Groups 20 to 28, as well as chapters for related industries within these major groups; Part 2 contains chapters for SIC Major Groups 29 to 39 and 19 as well as chapters for related industries within these major groups. A special report, Manufacturing Activity in Government Establishments, is included in both parts of this volume. The 80 related-industry chapters were previously published as separate reports in series MC63(2)–, 19A to 39D.

VOLUME III. AREA STATISTICS

This volume contains separate chapters for each State and the District of Columbia. The statistics include all-manufacturing totals for the State and its standard metropolitan statistical areas, counties, and cities with populations of 10,000 or more, with industry detail for the larger areas. The volume also includes a summary chapter presenting data for each of the nine geographic divisions and a special report, Manufacturing Activity in Government Establishments. Each State chapter was previously published as a separate report in Series MC63(3)–, 1 to 51.

OTHER REPORTS

Two series of reports have been issued showing the number of manufacturing establishments in each of the approximately 430 manufacturing industries classified according to their employment size class and the State and county within which they are located. The first series places emphasis on the industry, showing data by location (State and county). Nine separate reports present data for 20 major industry groups. The second series places emphasis on the location showing data by industry. Nine reports—one for each of the nine geographic divisions of the United States—were published in this series. The series titles are as follows:

Location of Manufacturing Plants by Industry, County, and Employment Size (MC63(S)–3, numbers 1 to 9)

Location of Manufacturing Plants by County, Industry, and Employment Size (MC63(S)–4, numbers 1 to 9)

The 1963 Census of Mineral Industries Publication Program

The 1963 Census of Mineral Industries was conducted jointly with the census of manufactures. This census was similar in scope and in publication program. Final results are published in two volumes, as follows:

Volume I. Summary and Industry Statistics, contains a summary chapter, 5 subject-type chapters, and 18 chapters showing related mineral industries.

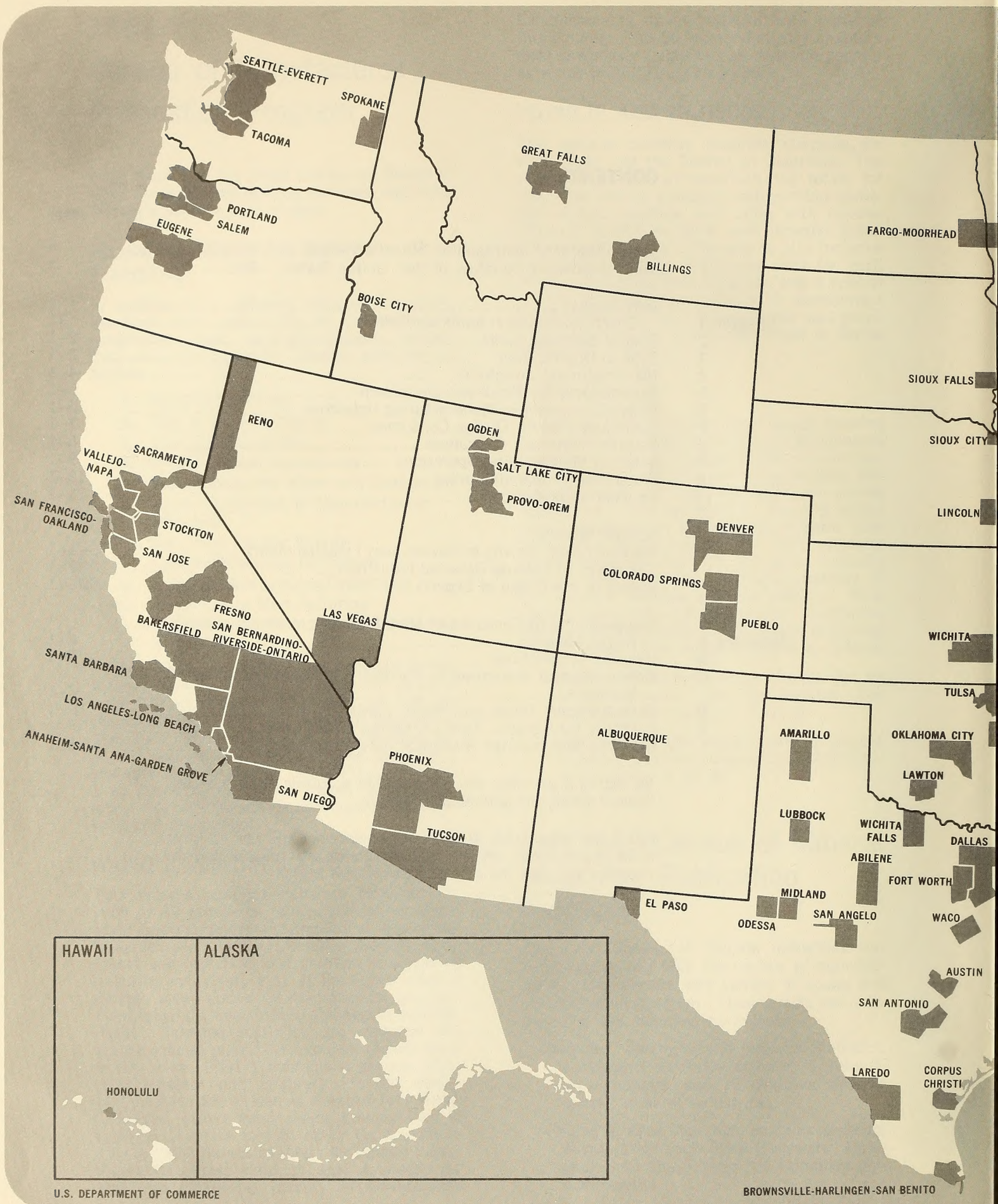
Volume II. Area Statistics, contains separate chapters for each State (Delaware, Maryland, and the District of Columbia are combined).

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The chapters of this volume were published earlier as separate reports in the 1963 Census of Manufactures series MC63(1)–, 1 to 10.

Data in this volume include all significant corrections uncovered after publication of the separate reports. The 1958 and other historical data include all significant corrections made since the latest publication of these figures.



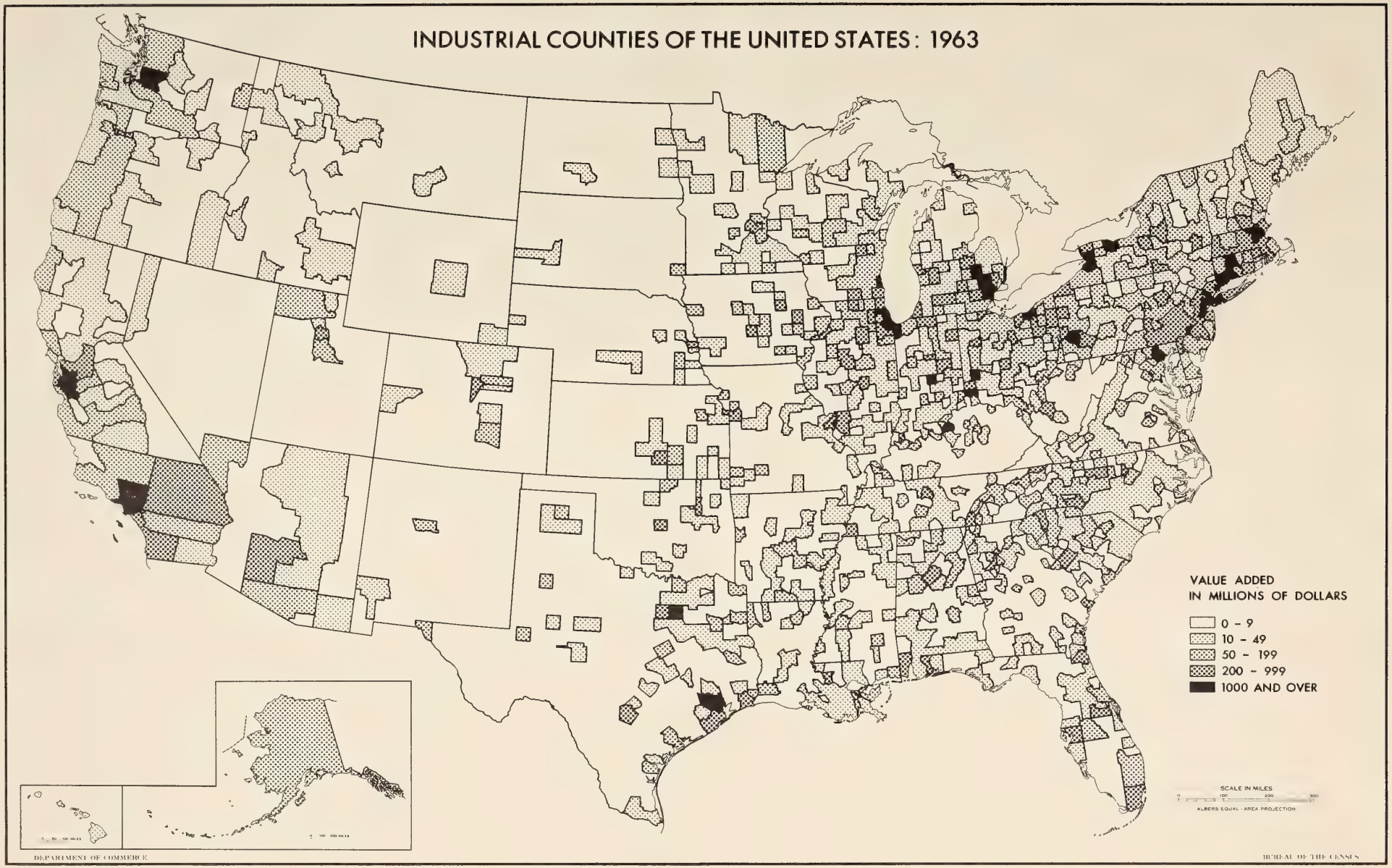
U.S. DEPARTMENT OF COMMERCE

STANDARD METROPOLITAN STATISTICAL AREAS: 1964

AREAS DEFINED BY U.S. BUREAU OF THE BUDGET




DULUTH-SUPERIOR (PT.)
GREEN BAY
MILWAUKEE
MADISON
RACINE
KENOSHA
ROCKFORD
DAVENPORT-ROCK ISLAND-MOLINE (PT.)
CHICAGO
PEORIA
SPRINGFIELD
DECATUR
CHAMPAIGN-URBANA
ST. LOUIS (PT.)
MUSKEGON-MUSKEGON HEIGHTS
BAY CITY
SAGINAW
FLINT
GRAND RAPIDS
LANSING
KALAMAZOO
JACKSON
ANN ARBOR
DETROIT
SOUTH BEND
TOLEDO
FORT WAYNE
GARY-HAMMOND-EAST CHICAGO
ANDERSON
MUNCIE
TERRE HAUTE
INDIANAPOLIS
EVANSVILLE
LOUISVILLE
LIMA
SPRINGFIELD-DAYTON
COLUMBUS
CINCINNATI
HAMILTON-MIDDLETOWN
HUNTINGTON-ASHLAND
LEXINGTON
CLEVELAND
LORAIN-ELYRIA
AKRON
CANTON
YOUNGSTOWN-WARREN
STEUBENVILLE-WEIRTON
WHEELING
ROCHESTER
BUFFALO
ERIE
BINGHAMTON
SCRANTON
WILKES-BARRE-HAZLETON
HARRISBURG
PITTSBURGH
ALTOONA
READING
LANCASTER
YORK
JOHNSTOWN
BALTIMORE
WASHINGTON
CHARLESTON
LYNCHBURG
ROANOKE
RICHMOND
NEWPORT NEWS-HAMPTON
NORFOLK-PORTSMOUTH
UTICA-ROME
SYRACUSE
ALBANY-SCHENECTADY-TROY
PITTSFIELD
MANCHESTER
FITCHBURG-LEOMINSTER
WORCESTER
PATERSON-CLIFTON-PASSAIC
SPRINGFIELD-CHICOPEE-HOLYOKE
HARTFORD
NEW BRITAIN-WATERBURY
NEW YORK
JERSEY CITY
NEWARK
TRENTON
PHILADELPHIA
ATLANTIC CITY
WILMINGTON
ALLENTOWN-BETHLEHEM-EASTON
LEWISTON-AUBURN
PORTLAND
LOWELL
LAWRENCE-HAVERHILL
BOSTON
BROCKTON
NEW BEDFORD
FALL RIVER
PROVIDENCE-PAWTUCKET-WARWICK
NEW LONDON-GROTON-NORWICH
MERIDEN
NEW HAVEN
BRIDGEPORT
NORWALK
STAMFORD


INDUSTRIAL COUNTIES OF THE UNITED STATES: 1963
VALUE ADDED
IN MILLIONS OF DOLLARS
0 - 9
10 - 49
50 - 199
200 - 999
1000 AND OVER
SCALE IN MILES
ALBERS EQUAL - AREA PROJECTION
DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

Chapter 1
Introduction

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1. Role of the Census of Manufactures
2. Economic Significance of Manufacturing Sector
3. Earlier Censuses
4. Definition of Manufacturing
5. The Standard Industrial Classification
6. Establishment Basis of Reporting
7. Geographic Areas
8. The Census Report Forms
9. Development of the Mailing List
10. Completeness of Coverage and Accuracy of Data

II. EXPLANATIONS OF TERMS USED IN COLLECTION AND PUBLICATION OF DATA

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13. Payrolls of Operating Establishments
14. Man-hours of Production and Related Workers
15. Materials
16. Products
17. Indexes of Production and Unit Value
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III. SPECIAL INQUIRIES, REPORTS, AND PROCEDURES

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28. Confidentiality of Data for Individual Companies
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I. GENERAL

1. ROLE OF THE CENSUS OF MANUFACTURES

The census of manufactures provides a detailed profile of the largest sector of the American economy. That census obtains, from every manufacturing plant with one employee or more, information on its input of labor and materials, its output of products, its location, and the legal form of organization of the owning firm. This information is obtained in sufficient detail to permit its classification by industry, by size of plant, by the homogeneity of its output and, where desirable, by type of operation, extent of vertical integration, kind of equipment, relationship to other plants of the same firm, and other characteristics.

The census of manufactures is conducted simultaneously with the censuses of mineral industries, wholesale and retail trade and selected services, and transportation.[1] This has facilitated the statistical coverage of the entire range of activities of most enterprises and a consequent improvement in the capability of the Bureau of the Census to deal effectively with the statistical problems of identifying establishments which support manufacturing activity, such as central administrative offices, auxiliaries, and sales branches; and to classify entire enterprises into industrial categories.

[1] The 1963 censuses covered the United States, Guam, and the Virgin Islands. Separate censuses of manufactures and business for 1963 were also conducted in Puerto Rico jointly with the Commonwealth Government. The statistics from 1958 onward include establishments in Alaska and Hawaii which achieved statehood in 1959.

General statistics information (i.e., total employment, payroll, production-worker employment, man-hours, wages, cost of materials, value of shipments, inventories, capital expenditures, and value added by manufacture) from the census of manufactures is published by industry, by area, by employment size of establishment, by degree of product specialization within plant, and by type of ownership. Information is supplied on the detailed industrial characteristics of each State and large standard metropolitan statistical area (SMSA); overall measures of manufacturing activity are shown at the county and individual city level down to cities of 10,000 or more population. This information constitutes a periodic inventory of the Nation's manufacturing economy that provides a benchmark for measuring the changes in that structure.

The census of manufactures also provides a benchmark from which more frequent surveys can be developed on a scientific sample basis. In fact, the present legislation specifying that censuses be conducted every 5 years authorizes an annual survey of manufactures on a sample basis during the intervening years. At the end of each 5-year census, a new sample is drawn relying on the overall characteristics described by the census itself. The sample, constituting about one-fifth of the establishments but with complete coverage of all large ones, provides an annual updating of the census of manufactures in terms of broad measures of economic activity. It provides the same basic measures of economic activity of the plant such as employment, payrolls, value of shipments, value added by manufacture, as does the census of manufactures, but contains

less detailed information on products, materials consumption, and equipment.[2]

The census of manufactures not only is a benchmark for many of the surveys conducted by the Census Bureau itself on a more frequent basis but also is the means of updating other important indicators of the economic activity. It provides very important information on the manufacturing segment used in the national income accounts. Census data on materials consumed and product output are basic to the manufactures sector of the input-output studies of the Office of Business Economics. The information derived from the census of manufactures is also used by the Federal Reserve Board in cooperation with the Census Bureau to develop indexes of industrial production for census years. This index is used as a benchmark for the monthly Federal Reserve Index of Industrial Production—a key monthly indicator of current economic activity.

[2] Since the annual survey of manufactures is a sample, the cross-classifications by industry and by area are fewer than in the census of manufactures. At the U.S. level, statistics are published in the annual survey for practically all of the 425 industries. However, at the State and SMSA levels, statistics are published only for 3-digit and 2-digit industry groupings, respectively. At the county level, information is published for about 10 percent of the 3,000 counties. These 300-odd counties are the larger ones in terms of manufacturing activity and account for about 80 percent of total manufacturing employment. No information is published at the city level.

The concurrent collection of comparable data on wholesale and retail trades, selected services, manufacturing, and minerals in the censuses beginning with 1954 has permitted the Census Bureau to develop its Enterprise Statistics Program, which relates census company-level data to the establishment data. Thus, a measurement of the integration and diversification of the American enterprise system becomes available. Likewise, through the Enterprise Statistics Program, it is possible to link census establishment-based data on a modified basis to other statistical systems such as the Internal Revenue Service's "Statistics of Income" for corporations.

2. ECONOMIC SIGNIFICANCE OF MANUFACTURING SECTOR

Manufacturing is the largest sector in the country's economy. In 1963, manufacturing establishments employed approximately 17 million persons of a civilian labor force of 75 million. During the 35-year period, 1929 to 1963, income originating in manufacturing has averaged 30 percent of national income (see table A). Wholesale and retail trade, the next largest sector, averaged about 15 percent.

The need for frequent and comprehensive statistics on manufactures derives as

TABLE A. National Income, Total and Amounts Originating in Durable and Nondurable Manufactures, for Selected Years

(Dollar values in billions)

Year	National income	National income originating in--				
		Manufacturing			Manufacturing as a percent of national income	Durable goods industries as a percent of total manufacturing
		Total	Nondurable goods industries	Durable goods industries		
1963	481.9	143.8	57.5	86.3	30	60
1962	457.7	137.0	55.6	81.4	30	59
1961	427.3	125.1	52.8	72.3	29	58
1960	414.5	125.8	52.2	73.6	30	59
1959	400.0	124.0	51.1	72.9	31	59
1958	367.8	107.7	45.7	62.0	29	58
1957	366.1	116.3	46.4	69.9	32	60
1956	350.8	113.1	46.2	66.8	32	59
1955	331.0	107.9	44.0	63.8	33	59
1954	303.1	94.6	39.7	54.9	31	58
1953	304.7	100.4	40.3	60.1	33	60
1952	291.4	92.5	38.2	54.3	32	59
1951	278.0	90.2	38.4	51.8	32	57
1950	241.1	76.2	33.3	42.9	32	56
1949	217.5	64.8	30.5	34.2	30	53
1947	199.0	59.5	28.0	31.5	30	53
1943	170.3	58.3	19.6	38.6	34	66
1939	72.6	18.1	9.1	9.0	25	50
1935	57.2	13.4	7.3	6.1	23	46
1933	40.3	7.7	4.9	2.8	19	36
1932	42.8	7.3	5.2	2.1	17	29
1929	86.8	21.9	10.6	11.3	25	52

Source: Survey of Current Business, August 1965, pp. 42-45, and July 1966, p. 15.

TABLE B. National Income by Industry Division for Selected Years

Industry	1929	1933	1939	1947	1954	1958	1963
	In billions of dollars						
All industries, total	86.8	40.3	72.6	199.0	303.1	367.8	481.9
Manufacturing	21.9	7.7	18.1	59.5	94.6	107.8	143.8
Nondurable goods	10.6	4.9	9.1	28.0	39.7	45.7	57.5
Durable goods	11.3	2.8	9.0	31.5	54.9	62.0	86.3
Wholesale and retail trade	13.5	5.6	12.6	37.6	48.3	58.2	73.3
Government and government enterprises	5.1	5.3	8.5	18.7	36.1	46.9	64.8
Services	8.8	5.1	7.6	18.1	27.8	38.4	54.1
Finance, insurance, and real estate	12.8	5.9	8.0	16.1	32.0	40.9	53.6
Contract construction	3.8	0.8	2.3	8.4	15.6	19.0	24.1
Transportation	6.6	3.0	4.6	11.6	14.6	16.6	20.0
Agriculture, forestry, and fisheries	8.5	3.9	6.0	18.9	16.4	18.0	18.6
Electric, gas and sanitary services	1.6	1.3	1.8	2.8	5.9	7.4	10.3
Communication	1.1	0.7	1.1	2.3	5.1	7.0	9.8
Mining	2.1	0.6	1.6	4.2	5.3	5.7	6.0
Rest of the world	0.8	0.3	0.3	0.8	1.6	2.0	3.4
	Percent of total						
All industries, total	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Manufacturing	25.2	19.1	24.9	29.8	31.2	29.2	29.8
Nondurable goods	12.2	12.2	12.5	14.0	13.0	12.4	12.0
Durable goods	13.0	6.8	12.4	15.8	18.1	16.8	17.8
Wholesale and retail trade	15.5	13.9	17.3	18.8	15.9	15.8	15.2
Government and government enterprises	5.8	13.2	11.7	9.3	11.9	12.7	13.4
Services	10.1	12.7	10.4	9.0	9.1	10.4	11.2
Finance, insurance, and real estate	14.7	14.5	11.0	8.1	10.5	11.1	11.0
Contract construction	4.4	1.9	3.2	4.2	5.1	5.1	5.0
Transportation	7.6	7.5	6.3	5.8	4.8	4.5	4.2
Agriculture, forestry, and fisheries	9.7	9.6	8.3	9.4	5.4	4.8	3.8
Electric, gas and sanitary services	1.8	3.1	2.4	1.4	1.9	2.0	2.1
Communication	1.2	1.7	1.4	1.1	1.6	1.9	2.0
Mining	2.4	1.5	2.2	2.1	1.7	1.5	1.2
Rest of the world	0.9	0.8	0.4	0.4	0.5	0.5	0.6

Source: Survey of Current Business, August 1965, pp. 42-45 and July 1966, p. 15.

much from its sensitivity to cyclical influences as from its relative size. Cyclical changes in income originating in manufacturing tend to be relatively larger than in the economy as a whole.

Within manufacturing, durable goods industries accounted for about 57 percent of all manufactures for that period. However, they tend to be more volatile than nondurable goods, accounting for a smaller percentage of all manufactures during periods of contraction and a larger percentage during periods of expansion. Of the census years since 1919, only 1925, 1935, 1939, 1947, and 1963 have not included some part of a period of contraction and a consequent underrepresentation of durable goods in the total. (See table B.)

Geographic Location of Manufactures.—The preponderance of manufacturing in the United States is predominantly in the Northeast as is shown in table C, page 4. Over the years, however, there has been a shift to the South and West.

Size Distribution of Manufacturing Plants.—Most manufacturing establishments require a substantial amount of capital and ordinarily a considerable volume of business for efficient operation. While there are many small plants, they account for relatively little of the Nation's production. Thus, as shown in table D, half the plants have less than 10 employees but they account for only 3 percent of the value added by manufacture.

3. EARLIER CENSUSES

The census of manufactures for 1963 is the 27th such census for the United States. The first census of manufactures covered 1809 and, with the exception of 1829, a census was taken at 10-year intervals in connection with the decennial census of population up to and including 1899. It was conducted at 5-year intervals from 1904 through 1919, and every other year from 1921 through 1939. The census was suspended during World War II, but it was resumed for 1947. Legislation enacted in 1948 provided for a census every 5 years, cov-

TABLE C. Operating Manufacturing Establishments Employment by Divisions and as a Percent of the United States Total for Selected Years

Geographic division	Employment (1,000)	Percent	Employment (1,000)	Percent	Employment (1,000)	Percent
	1963		1958		1947	
United States, total	16,234	100.0	15,423	100.0	14,294	100.0
New England	1,379	8.5	1,360	8.8	1,475	10.3
Middle Atlantic	3,811	23.5	3,882	25.2	3,954	27.7
East North Central	4,264	26.3	4,084	26.5	4,323	30.2
West North Central	975	6.0	933	6.0	786	5.5
South Atlantic	2,068	12.7	1,844	12.0	1,524	10.7
East South Central	874	5.4	767	5.0	635	4.5
West South Central	838	5.2	771	5.0	551	3.9
Mountain	279	1.7	225	1.5	140	1.0
Pacific	1,746	10.8	1,554	10.1	914	6.4
	1939		1929		1899	
United States, total	9,527	100.0	10,198	100.0	5,077	100.0
New England	1,121	11.8	1,246	12.2	897	17.7
Middle Atlantic	2,758	29.0	3,003	29.4	1,732	34.1
East North Central	2,693	28.3	2,949	28.9	1,177	23.2
West North Central	491	5.2	567	5.6	297	5.8
South Atlantic	1,111	11.7	1,000	9.8	483	9.5
East South Central	410	4.3	417	4.1	188	3.7
West South Central	331	3.5	341	3.3	122	2.5
Mountain	89	0.9	119	1.2	48	1.0
Pacific	523	5.5	556	5.5	133	2.6

Note: Detailed figures may not add to totals because of independent rounding.

ering the years ending in "3" and "8," and authorized an annual sample survey for interim years.[3] An annual survey of manufactures has been conducted for the intercensal years beginning with 1949 and is a continuing part of the Bureau's program. Table 1, General Summary, provides national totals for manufactures for the censuses and annual surveys since 1849.

The census of manufactures was the public's only source of reliable statistical information on manufactures during the 19th century. During the current century, particularly since the first world war, more frequent statistical series on many aspects of manufactures have been developed. However, the census of manufactures continues to play an essential role in the Nation's statistical program, since it remains the only source of comprehensive information on the detailed industrial and geo-

[3] The census originally scheduled to cover 1953 was conducted for 1954 on the basis of special legislation authorizing this change. A census covering 1958 and this census covering 1963 were conducted under the legislation of 1948. In an effort to spread its workload more evenly over the decennial period, the Bureau of the Census, in 1964, asked for and obtained legislation (P.L. 88-532) specifying that subsequent censuses of manufactures would cover the years ending in "2" and "7." Consequently, the next census of manufactures is scheduled for 1967.

TABLE D. Cumulative Percentage of Number of Manufacturing Establishments and Value Added by Manufacture by Size Class: 1963

Size class	Number of establishments	Value added by manufacture
All establishments	100.0	100.0
Establishments with an average of—		
1 to 4 employees	36.5	1.1
5 to 9 employees	52.3	2.7
10 to 19 employees	67.6	5.9
20 to 49 employees	83.0	13.3
50 to 99 employees	90.5	21.5
100 to 249 employees	96.2	36.5
250 to 499 employees	98.4	49.8
500 to 999 employees	99.4	63.0
1,000 to 2,499 employees	99.8	78.2
2,500 employees and over	100.0	100.0

graphical structure of the manufacturing sector which is closely comparable over long periods of time.

4. DEFINITION OF MANUFACTURING

Manufacturing is the mechanical or chemical transformation of inorganic or organic substances into new products. The assembly of component parts of products is also considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills, which characteristically use power-driven machines and materials-handling equipment.

Manufacturing production is usually carried on for the wholesale market, for transfer to other plants of the same company, or to the order of industrial users rather than for direct sale to the household consumer. However, some manufacturers (e.g., baking, milk bottling, etc.) sell chiefly at retail to household consumers through the mail, through house-to-house routes, or through salesmen. Some activities of a service nature (enameling, binding, platemaking, etc.) are included in manufacturing when they are performed primarily for the trade; but they are considered nonmanufacturing when they are performed primarily to the order of the household consumer. On the other hand, some manufacturing industries include business firms which do not undertake physical production but perform only the entrepreneural functions of buying the materials, designing, and marketing the product, and have the actual production done on contract (e.g., apparel jobbers).

In addition to the production of goods and manufacturing services, manufacturing plants engage in related and diverse supporting activities. These activities encompass the acquisition of materials to be processed, their movement into the manufacturing facility, their storage at the manufacturing site, the operation and maintenance of plant and equipment, the design of flow of work through the production process, and necessary arrangements for shipment of output to customers. Also included are a host of subsidiary activities associated with the conduct of the establishment as a manufacturing entity; e.g., management and policy formation, product and market orientation, engineering and quality control, recordkeeping and accounting, physical security of plant and equipment, and the like. Such subsidiary activities may be performed by personnel located at the manufacturing facility or at an auxiliary unit serving one or more manufacturing locations of the same company. Where these activities are carried on at a different physical location or are performed for more than one plant, they are excluded from the figures for operating manufacturing establishments and are included in the data shown for central administrative offices and auxiliaries (see sections 8 (form NC-X6) and 11 of the text).

The following types of activities, while having many of the characteristics usually found in manufacturing, are considered as nonmanufacturing and, therefore, are excluded from the census:

(a) Processing on farms when the raw materials are grown on the farm and the manufacturing activities (poultry dressing, milk and butter production, logging) are on a small scale without extensive use of paid labor. Also custom milling, cotton ginning, egg hatching, and similar activities closely associated with agriculture are excluded.

(b) Mineral preparation such as the crushing, screening, and concentrating of ores. However, mining performed as a secondary activity in conjunction with manufacturing is included in the census; for example, stone and clay mining at cement, lime, and clay products plants.

(c) Custom work to the individual order of household consumers. Examples are custom tailoring, woodworking, lettering on monuments, setting of diamonds, and the making of orthopedic appliances.

(d) Repair and other service activities, except specified services performed "for the trade." Repair shops of railroads are also excluded.

(e) Production of coke for own use by establishments owned by public utility companies.

On the other hand, the census of manufactures excludes manufacturing at locations which are not primarily manufacturing plants: (1) Manufacturing by retail establishments which sell most of their products on the premises directly to household consumers, e.g., retail bakeries, ice cream stores, and feed stores; (2) manufacturing by construction contractors at the site, e.g., production of paving mixtures; and (3) manufacturing by educational, eleemosynary, and penal institutions.

Conversely, it is not unusual for manufacturing establishments to engage also in nonmanufacturing activities such as repair work, merchandising of products without further processing, and installation work. Ordinarily, these nonmanufacturing receipts are small in relation to the manufacturing activities and, therefore, it is not difficult to determine that the establishments should be included in the manufactures area. However, if the nonmanufacturing activities account for a significant proportion of total receipts of an establishment, the classification of that establishment

into the appropriate major economic sector is more difficult.

In the 1963 economic censuses, an establishment engaged in a combination of manufacturing and merchandising was assigned either to the manufacturing or the trade industries depending on which of these activities was estimated to account for the larger share of its "value added" or "income produced." This criterion, even though based on an approximation, was considered preferable to reported dollar volume of receipts from each type of activity in determining the primary industry, since manufacturing requires considerably more man-hours, salaries and wages, and other inputs per dollar of receipts than either wholesaling or retailing. However, in classifying establishments engaged in manufacturing and also in mining, repair work, installation, construction or other nonmanufacturing services, dollar receipts were used as the basis of classification because these activities require substantially comparable inputs per dollar of receipts.

Data were obtained on the manufacturing activities during 1963 of establishments owned and operated by the Federal Government (military arsenals, Navy yards, etc.) and of Federal and State prisons for the purpose of presenting complete information on manufacturing operations in the United States. Statistics on the employment, value added by manufacture, and products manufactured by the Department of Defense establishments and the quantity and value of products made in Federal and State prisons are shown in a separate chapter in each manufactures volume. These data are not included in any of the individual industry or industry group totals or area statistics appearing in the census of manufactures volumes. However, information on government-owned, privately operated establishments is included throughout the statistical tables in the appropriate industry on the same basis as privately owned and operated plants.

5. THE STANDARD INDUSTRIAL CLASSIFICATION (SIC)

The specific industry coding and groupings in the 1963 Census of Manufactures follow the structure of the *Standard Industrial Classification Manual,* published by the Bureau of the Budget. This manual, which is a classification structure for the entire national economy, was first issued in 1939.[4] In the manufacturing sector, the manual built upon the Bureau of the Census manufacturing industry classifications developed over the years. The SIC was developed for use in classifying establishments by type of activity in which they are engaged in order to facilitate the collection, tabulation, and publication of data relating to establishments and to promote uniformity and comparability in the presentation of statistical data by government agencies, trade associations, research organizations, and others.

The SIC divides all activities into broad industrial divisions (manufacturing, mining, retail trade, agriculture, etc.). It further subdivides each division into major industry groups, then into industry groups, and finally into detailed industries. The numbering system provides flexibility, permitting use of classification at various levels of detail according to the specific needs and uses desired. Employing a decimal system of coding, the Major Industry Group is assigned two digits (Major Group 20 for Food and Kindred Products), the Industry Group, three digits (Group 201 for Meat Products), and the industry, four digits (Industry 2011 for Meat Packing Plants). Thus, for each 4-digit industry, it is possible to identify the Industry Group to which it belongs by the first three digits of its code and, by its first two digits, the Major Industry Group. For the manufacturing division, the 21 2-digit SIC Major Groups (19 to 39) are subdivided into 149 3-digit SIC Groups (191 to 398) and into 427 4-digit industries (1911 to 3999). While the SIC contains 427 industries, the Bureau of the Census combines three industries in the automotive area into one, for a total of 425 industries.

Most of the 425 manufacturing industries are defined in terms of a specific group of related products. Usually, the products are made of similar materials and by similar processes, and are competitive. In determining the boundaries of product-defined industries,[5] it is essential that each industry comprise a group of establishments whose output of products defining the industry (primary products) accounts for a relatively high proportion of the total shipments of the industry as well as of the total shipments of these primary products by establishments in all manufacturing industries. Some industries are defined in terms of the processes or equipment used regardless of the final product of the establishment. A small number of industries are basically defined by material used as well as final product of the plant.

[4] For the manufacturing industries, a revised manual was issued in 1945 which, with minor modifications, was used in the 1947 Census of Manufactures. For the 1954 census, the classification structure used in 1947 was again employed, again with minor modifications. In 1957, the SIC system was extensively revised for manufacturing industries and historical comparability of some data was seriously affected. This revision and its effects on census series are described in the introduction and appendixes to the 1958 census volumes. A minor revision of the SIC between 1958 and 1963 introduced some 4-digit industry changes but none of them crossed 3-digit group lines. Also, there were some amendments in industry titles, definitions, and index items, and additions to the index items in the SIC Manual.

[5] Frequently the business world and other data users look at a group of products from more than one point of view. For example, modern high-speed computers are classified as office machines. This describes the purpose of the product. In a physical sense, however, such computers would be described as electronic devices. Similarly, paper bags, wooden boxes, glass bottles, tin cans, and steel barrels may all be classified as containers or they may be individually grouped with other products of similar materials such as converted paper products, wood products, glass products, etc.

There are wide differences among industries in the extent to which the establishments classified in the industry (a) account for the total production of commodities "primary" to the industry, (b) produce products or services "belonging" to other industries (i.e., secondary products), and (c) use similar materials or processes. (See sections 15, 16, 18, and 24). While these variations are frequently construed to be shortcomings, the fact is that the limitations observed in the classification structure arise from the inherent complexity of our economic system and from the disparity in the methods of production among the individual producing units of which it is comprised. The data collected in the census of manufactures provide a statistical basis for a critical evaluation of the classification system; i.e., for assessing the boundaries between industries, the growth and decline of industries, and the impact of technological change on the classification of industries. Consequently, the census is the primary instrument for effecting revisions in the SIC manufacturing sector.[6]

No general-purpose system of industrial classification can hope to satisfy all users of census data. Some business users will be interested primarily in data relating only to themselves and to their competitors in the production of a narrow range of products; others will wish data relating to all products, including complementary and substitutable products, competing in a particular market; others may wish data relating to the consumers of one or more types of materials. Some may be interested only in the data for plants producing a specific product; others only for those plants producing a "full line" of products. The large number of SIC industries provides the analyst with the "building blocks" for obtaining useful approximations, if not "clean" data, relevant to many of these problems. But, at best, a single general-purpose system of classification can satisfy these diverse needs only partially; a point is soon reached beyond which the adaptation of a system to serve one use somewhat better will reduce its ability, often disproportionately, to serve an alternative use.

Accordingly, users of data frequently regroup detailed SIC industries into broad groupings along lines different from those in the SIC 2- and 3-digit categories. The Federal Reserve Board for many years has made combinations to stress such criteria as durable, nondurable, consumers, producers, finished, intermediate goods, etc. Other public and private agencies also recombine the detailed classes. By and large, the 4-digit industries are susceptible to allocation to such categories, while the 2-digit SIC groups are not.

[6] See **Industry Classification and Sector Measures of Industrial Production** by James W. McKie, Bureau of the Census Working Paper No. 20, 1965. and **Historical Comparability of Census of Manufactures Industries, 1929-1958** by Harold T. Goldstein, Bureau of the Census Working Paper No. 9, 1959.

To increase the usefulness or improve the editing of the data, the Census Bureau frequently has further classified the basic 4-digit SIC industries into "subindustries." This device is employed where there are wide disparities in the operating ratios of the plants in the industry because of differences in the degree of intraplant vertical integration, technology, methods of distribution, geographic location, types of materials used, etc. This technique was used for about 65 manufacturing industries for editing purposes and many were regarded as sufficiently significant to be used for publication: For example, the bakery industry (SIC 2051) is subdivided into wholesale bakeries, chain-store bakeries, home-service bakeries, and retail multi-outlet bakeries; many apparel industries (Group 23) are subclassified into manufacturers, contractors, jobbers; the lumber industry (2421) by degree of integration, etc.

To provide a further measurement of variations within 4-digit industries, the Bureau also subclassifies establishments by the degree to which they produce the primary products or specific classes of primary products of the 4-digit industry. This is in effect a subindustry classification based on degree of product specialization. (See section 24 for a more complete discussion of product specialization data.)

6. ESTABLISHMENT BASIS OF REPORTING

The census of manufactures is conducted on an establishment basis. That is, a company operating establishments at more than one location is required to submit a report for each location; also, a company engaged in distinctly different lines of activity at one location is required to submit separate reports if the plant records permit such a separation and if the activities are substantial in size.

Census tabulations of establishment reports, therefore, differ substantially from those prepared on a company basis; i.e., from consolidated reports which combine various types of activities at different locations (thereby yielding a net sales figure for the industry exclusive of interplant transfers but making meaningful geographic tabulations of employment and value added impossible). These consolidated reports also include nonmanufacturing activities of companies primarily engaged in manufacturing. Census figures will also differ to some extent from other tabulations based on establishment reports where the definition of an establishment, as to location and line of activity, is not applied in the same manner.

The requirement that distinct lines of activity at the same location be separately reported was selectively applied where the establishment produced and shipped significant amounts of products classified in different SIC

industries. In widely varying degrees, this product overlap exists in many manufacturing establishments. Generally, the amounts involved are not of serious proportion so that the filing of separate reports would not be warranted as a practical matter, even if feasible. However, there are a number of locations at which large numbers of employees are engaged in each of two or more distinct lines of manufacturing as defined in the SIC. Frequently, companies organize their operations and their records separately where diverse activities are large and choose to report them as separate plants. When they do not do so on their own initiative, the Census Bureau requests separate reports. For the most part, companies have responded favorably, particularly for very large operations where failure to "split out" the different activities would significantly distort the relationship of the industry and product statistics. Not infrequently, though, the two groups of products were made on the same production lines by many of the same employees and could not be distinguished sufficiently in the companies' records to provide establishment-type reporting.

SIC industry definitions take account of special situations where otherwise separately classifiable activities are frequently combined at one location. For example, in the lumber area the definition of industry 2421, Sawmills and Planing Mills, General, recognizes the situation that sawmills may include logging operations. Similarly, in the pulp and paper area, pulp mills operated in combination with paper mills are included in one report.

In 1963 and 1958, as in earlier years, a minimum size limit was set for including establishments in the census. Reports were required from all establishments employing one or more persons at any time during the census year. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than $5,000 value of products were excluded. The change in the minimum size limit in 1947 has not appreciably affected the historical comparability of earlier census figures except for data on number of establishments for a few industries.

A special study of manufacturing plants with no employees in 1958 was made to analyze the amount of manufacturing activity conducted by these very small establishments. While there were over 50,000 manufacturing establishments in this category in that year, they had only about one-quarter of 1 percent of the total value of shipments of all manufacturing.

The SIC coding system operates in such a way that the definitions become progressively narrower with successive additions of numerical digits. At one extreme are the 21 very broad 2-digit groups and at the other about 10,000 individual 7-digit products. In between are approximately 150 3-digit groups, 425 4-digit industries, and 1,100 5-digit product classes. The 7-digit products and 5-digit product classes are considered the primary products of the industry with the same first four digits as the product code. Accordingly, an establishment is classified in a particular industry if its production of the primary products of that industry exceeds in value its production of products of any other single industry. The industry code assigned to the establishments is derived from a summation of values for 7-digit product codes to their 4-digit industry and the selection of the largest such value as the establishment's industry classification. However, as mentioned earlier, the industry classification of an establishment may be determined not only by the products it makes but also by the processes employed or materials used in making those products.

While some establishments produce only the primary products of the industry in which they are classified, it rarely happens that all the establishments in an industry specialize to this extent. Therefore, the general statistics (employment, payrolls, inventories, value added by manufacture, total value of shipments, capital expenditures, etc.) shown for an industry (tables 1 to 4 of the industry chapters in Volume II) reflect not only the primary activities of the establishments in that industry but also their activities of a secondary nature. The product statistics in table 6 of the industry chapters represent the total output of specific products whether they are produced by establishments classified in the same industry as the product or not. For this reason, in relating the industry statistics in the industry chapters, especially the industry total value of shipments (tables 1 to 4), to the product statistics (table 6), the composition of the industry's output as shown in tables 5A and 5B should be considered.

The extent to which industry and product statistics may be matched with each other is measured by the two ratios which are computed from these tables 5A and 5B. The first of the ratios, called the primary product specialization ratio, describes the proportion of product shipments (both primary and secondary) of the industry represented by primary products. The second, defined as the coverage ratio, is the proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

In many industries, establishments making products falling into the same industry category use a wide variety of processes and materials to produce them. Also, within the same industry classification based on end products, may be included those establishments which are vertically integrated and those

which put only the finishing touches on an already highly fabricated purchased item. For example, in the refrigeration industry, there are instances of almost complete process integration in which the production of the compressor and condensing unit, electric motor, and even the castings for those intermediate products, as well as the stamping of the case and the final assembly, are all carried on at one plant. In other plants, the condensing unit, the motor, and the case may be purchased and merely assembled into the finished product.

In some instances, nonintegrated plants have been placed in separate industry categories from the integrated plants. In many industries, the census provides separate statistics on departmental operations or on the production of intermediate commodities made and used in the producing plant. When an industry includes plants which ship a significant proportion of their output to other plants of the same company, separate figures are usually shown on the interplant transfers.

These differences in the integration of production processes, types of operations, and types of materials used should be taken into account when relating the general items (employment, payrolls, value added, etc.) to the product and materials data. For those industries where the integrated type of operations is of consequence, that fact is pointed out in the explanatory text for the industry.

In many industries, there are some large plants with a product-mix such that the value of secondary products is as large as or larger than the value of primary products. In the Annual Survey of Manufactures (ASM), these plants are prevented from shifting back and forth among industries because of only minor shifts in products by the application of a "resistance formula" in assigning industry classifications.

The formula gives approximately equal weight to the need for statistical measurement of change in an industry and the measurement of an industry's status at a point in time.

The resistance technique for large establishments was introduced for the first time in the quinquennial census in 1963 and was applied to certainty cases in the ASM panel for 1963.

The 1963 industrial classification of an ASM plant with 100 employees or more was allowed change from that assigned in 1962 where—

(1) The new primary activity constituted 60 percent or more of its total value of shipments, or

(2) The new primary activity, while less than 60 percent, was at least twice as great as the old primary activity in the current year, or

(3) The new primary activity, if it did not meet either of the first two conditions, exceeded the old primary activity by at least 20 percent in both the current and the preceding year.

Where the establishment's industry classification coded in the "annual survey" manner differed from that developed independently from the 1963 census report, the annual survey code took precedence, except where additional census tests not available in the annual survey justified the census code (e.g., type of materials consumed, type of operations, special inquiries).

7. GEOGRAPHIC AREAS

Census Regions, Divisions, and States.—For over a century, the Census Bureau has presented data for States and major sections of the United States related not only by geographic proximity but also by similarities of agriculture, industry, and social characteristics. Since the 1909 Census of Manufactures, the present nine Census geographic divisions have been used. Beginning with the 1939 census, the nine divisions were grouped further into four broad geographic regions: Northeast, South, North Central, and West.

Not only are these State groupings convenient for the summary presentation of data below the U.S. level, but they are essential to presenting a maximum of geographic information for those individual industries in which application of the census disclosure law precludes the publication of individual State data. (See the discussion in section 28, Confidentiality of Data for Individual Companies.) The relative importance of manufacturing among the States and divisions is shown in table E.

In Volume III, Area Statistics, industry detail is shown wherever possible under the rules of confidentiality at the regional, State, county, and standard metropolitan statistical area (SMSA) levels, in addition to the all-manufacturing totals. The level of industry detail shown for each area is as follows:

State—2-, 3-, and 4-digit industry detail;

County—2- and 3-digit industry totals, but only for those industry groups which have 500 employees or more in the industry group in the county;

City—information only at the all-manufacturing level for cities of 10,000 or more population according to the 1960 Census of Population or later special censuses conducted by the Bureau of the Census.

Standard Metropolitan Statistical Areas.—The SMSA's for which data are shown are those defined by the Bureau of the Budget

TABLE E. Value Added by Manufacture, Adjusted, by Divisions and States: 1963 and 1958

(Value in millions of dollars)

Division and State	1963		1958	
	Value added by manufacture, adjusted	Percent	Value added by manufacture, adjusted	Percent
United States, total	192,103	100	141,541	100
New England	13,589	7.1	10,440	7.4
Maine	786	0.4	628	0.4
New Hampshire	636	0.3	491	0.4
Vermont	309	0.2	236	0.2
Massachusetts	6,404	3.3	5,128	3.6
Rhode Island	959	0.5	756	0.5
Connecticut	4,496	2.3	3,200	2.3
Middle Atlantic	43,560	22.7	34,814	24.6
New York	19,559	10.2	15,892	11.2
New Jersey	9,957	5.2	7,500	5.3
Pennsylvania	14,044	7.3	11,423	8.1
East North Central	56,326	29.3	40,962	28.9
Ohio	15,506	8.1	11,472	8.1
Indiana	7,727	3.7	5,502	3.9
Illinois	14,640	7.6	11,664	8.2
Michigan	13,090	6.8	8,364	5.9
Wisconsin	5,363	2.8	3,960	2.8
West North Central	11,809	6.1	8,870	6.3
Minnesota	2,806	1.5	2,050	1.4
Iowa	2,287	1.2	1,684	1.2
Missouri	4,296	2.2	3,251	2.3
North Dakota	72	0.1	63	0.1
South Dakota	140	0.1	114	0.1
Nebraska	747	0.4	536	0.4
Kansas	1,460	0.8	1,171	0.8
South Atlantic	21,134	11.0	14,355	10.1
Delaware	658	0.3	420	0.3
Maryland	3,001	1.6	2,394	1.7
District of Columbia	257	0.1	198	0.1
South Atlantic--Continued				
Virginia	3,046	1.6	2,123	1.5
West Virginia	1,887	1.0	1,269	0.9
North Carolina	4,567	2.4	3,078	2.2
South Carolina	2,111	1.1	1,360	1.0
Georgia	3,254	1.7	2,102	1.5
Florida	2,352	1.2	1,411	1.0
East South Central	9,383	4.9	6,389	4.5
Kentucky	2,548	1.3	1,769	1.2
Tennessee	3,303	1.7	2,207	1.6
Alabama	2,515	1.3	1,770	1.3
Mississippi	1,017	0.5	642	0.5
West South Central	10,942	5.7	7,791	5.5
Arkansas	961	0.5	592	0.4
Louisiana	1,916	1.0	1,430	1.0
Oklahoma	979	0.5	725	0.5
Texas	7,086	3.7	5,045	3.5
Mountain	3,472	1.8	2,244	1.6
Montana	236	0.1	191	0.1
Idaho	366	0.2	256	0.2
Wyoming	82	0.1	63	0.1
Colorado	1,194	0.6	782	0.5
New Mexico	150	0.1	108	0.1
Arizona	627	0.3	360	0.2
Utah	711	0.4	417	0.3
Nevada	106	0.1	68	0.1
Pacific	22,112	11.5	15,666	11.1
Washington	3,029	1.6	2,167	1.5
Oregon	1,575	0.8	1,222	0.9
California	17,163	8.9	12,048	8.5
Alaska	85	0.1	65	0.1
Hawaii	261	0.1	165	0.1

Note: Detailed figures may not add to the totals because of independent rounding.

in 1964.[7] An SMSA is a county or group of contiguous counties (except in New England) which contains at least one central city of 50,000 inhabitants or more or "twin cities" with a combined population of at least 50,000. In addition to the county or counties, containing such a city or cities, contiguous counties are included in an SMSA if, according to certain criteria, they are essentially metropolitan in character and are socially and economically integrated with the central city. In New England, towns and cities rather than counties are the units used in defining an SMSA. Thus an area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city.

Each SMSA is designated by the name of the principal city of the area. In addition to the name of the principal city, the area title may include one or two additional city names.

Industry group (2- and 3-digit) statistics as well as all-manufacturing totals are published for SMSA's with 40,000 to 190,000 manufacturing employees. Detailed industry (4-digit) statistics are published for SMSA's with more than 190,000 employees. These industry statistics for each area are presented in table 6 in the report for each State. There are 75 SMSA's with more than 40,000 employees, and 15 with more than 190,000.

[7] Executive Office of the President, Bureau of the Budget, **Standard Metropolitan Statistical Areas**, 1964.

Assignment of Geographic Area Codes.—In the census of manufactures, as in the entire economic census, each individual establishment (plant) was assigned a geographic code that indicated the State, the county, and the city in which it was located. Most manufacturing activities require a permanent structure and fixed equipment so that the location of a plant usually can be specified with little or no ambiguity. Plants which straddle boundary lines are classified as located within the more populous of the two areas in which some part of the plant is located.

In previous censuses, the geographic code was assigned manually to every report after a clerical review of the physical location reported by the respondent. In 1963, the report form was precoded by high-speed electronic equipment prior to mailing through the use of an extensive file of addresses classified by place. Only those reports which indicated differences between the mailing address and the reported physical location were manually coded after receipt.

8. THE CENSUS REPORT FORMS

The diversity of manufacturing activities in the United States made it necessary to use about 200 different report forms to collect information on the products shipped and materials used by the 425 manufacturing industries. In order to obtain the data essential to the census in a manner consistent with cost considerations and reportability by the respondent, it was decided to require detail information only from larger plants. For the numerous smaller plants, typically having less detailed records and representing a very minor portion of manufacturing activity, data requirements were limited to a relatively few key items on a series of short forms. All plants in the annual survey of manufactures sample reported on standard forms irrespective of their employment size. Using the administrative records of the Social Security Administration in conjunction with existing Bureau of the Census records, it was possible to determine correctly, in most cases, the specific questionnaire each manufacturing establishment should receive.

Information was obtained on all 1963 report forms regarding the physical location, Social Security employer identification number, company affiliation, and legal form of ownership. These kinds of information were necessary to assure control over the completeness of coverage (see section 9, Development of the Mailing List), and also permitted the classification of each establishment by geographic location and type of organization. (See section 26, Special Reports.)

Standard Forms.—All ASM establishments and all of the larger non-annual survey establishments received the standard (long) form which contained the full census detail.

Each standard form called for the same general items regardless of the industry: Total employment, total payrolls, production-worker employment and man-hours by quarter, production-worker wages, material costs, value of shipments, fuel and electric energy costs, inventories by type, and capital expenditures by type. However, the forms differed in the detailed inquiries on the quantity and value of products shipped and the quantity and cost of individual materials consumed. There were also miscellaneous inquiries such as type of operation and equipment used, departmental inquiries, special details on delivery operations, etc., that were unique to an individual industry or industry groups.

Information on the gross book value of total fixed assets in place (structures and equipment combined) at the end of 1962 and at the end of 1963, and on rental expenditures for buildings and for equipment during 1963 was requested of establishments in the 1963 Annual Survey of Manufactures sample panel. This special information will be published beginning with the 1964 Annual Survey of Manufactures.

Short Forms.—A short form was mailed to establishments with less than 6 employees except in a few industries where it was sent to those with less than 10 employees. This form required considerably less detail; e.g., total employment and payrolls without any detail on production workers, cost of materials as a grand total, and value of shipments in terms of broad classes of products. No information was requested on inventories or capital expenditures.

However, for the few industries in which small plants account for a significant proportion of the total value of shipments or employment, special modifications were made to collect some detail on the individual products shipped and less frequently on the types of materials used. These industries consisted of logging and sawmills, concrete products, dairy products, meat products, and several printing and publishing industries.

Form MA-101, Manufacturing Plants Under Construction During 1963.—This form was designed to obtain data on capital expenditures by large manufacturing firms for new plants under construction during 1963 but not yet in operation at the end of the year. It was mailed to all multiestablishment companies with 250 employees or more. It was also mailed to any other company which indicated on one of its establishment report forms, in a special check-box section, that it had a plant under construction but not yet in operation. Each such plant was coded geographically and to a 4-digit industry from the description given of its expected activity. The information obtained on form MA-101 was integrated into

new capital expenditures figures in all tables of the 1963 Census of Manufactures. (For further discussion, see section 22, Expenditures for Plant and Equipment.)

Form NC-X6, Central Administrative Offices and Auxiliary Establishments.—Separate reports were required from each multiestablishment company which indicated that it was operating a separate central administrative office or auxiliary (i.e., a warehouse, a research laboratory, a garage, a repair shop, etc.) serving one or more of its operating establishments. Each auxiliary establishment for which a report on form NC-X6 was submitted was classified as to the nature of the activity it performed and as to the 2-digit industry category of the establishment(s) which it primarily served. The form requested information on employment as of March 15 and payrolls for the year, as well as a percentage breakdown of its employment total, by the type of activity that the employees were performing—administrative work, research and development work, warehousing, direct selling, etc. In addition to this information, the report form also collected data on the total sales that were made for the company from the central office or auxiliary, the cost of research and development work done, value of inventories held, and the capital expenditures for structures and equipment.

The information on the central administrative offices (CAO) and auxiliaries has been tabulated separately and appears as part of the Census Bureau's report, *Enterprise Statistics 1963,* Part 2, Central Administrative Offices and Auxiliaries. In that publication, information will appear not only by 2-digit industry of the establishments served but also by type of function performed and industry category of owning company. In the census of manufactures, the employment and payrolls of central administrative offices and auxiliaries serving manufacturing have been added to the figures for operating establishments into the State, county, standard metropolitan statistical area, and city all-manufacturing totals. Wherever industry detail is provided, the employment and payroll at the central administrative offices and auxiliaries appear as a separate 2-digit industry category at the end of the list of industries. In the manufacturing sector, in 1963, there were approximately 5,300 such establishments which accounted for 726 thousand employees with payrolls of $6.6 billion, representing 4 percent and 7 percent, respectively, of the totals of all manufacturing employment and payrolls. It should be noted also that employment of CAO's has been increasing more rapidly than employment of operating establishments, partially the result of the tendency of larger companies to centralize operations formerly carried on a decentralized basis at each plant. (See table F.)

Other Related Forms in the 1963 Economic Censuses:

Form NC-KL, Company Summary Report Form.—This form requested, for the consolidated company, information on payrolls, employment, sales or receipts, inventories, capital expenditures, value of assets, and rental payments. It was restricted to companies with 250 employees or more in the industries included in the economic censuses.

Based on information filed on the establishment reports of the multiestablishment companies, the entire company was classified into 1 of 179 enterprise industry categories developed by grouping the Standard Industrial Classification industries. A special report, *Enterprise Statistics, 1963,* Part 1, General Report on Industrial Organization, provides tables showing the characteristics and diversification of these multiestablishment companies as derived from the information on census establishment reports.

TABLE F. Comparison of Employment and Payrolls at Operating Manufacturing Establishments and Central Administrative Offices and Other Auxiliaries Serving Them

Period	Operating establishments		Central administrative offices and auxiliaries[1]			
					As a percent of total[1]	
	Employees (1,000)	Payrolls (billion dollars)	Employees (1,000)	Payrolls (billion dollars)	Employees	Payrolls
1963	16,234	93.3	726	6.6	4.3	6.6
1958	15,423	73.9	602	4.5	3.8	5.7
1954	15,645	63.0	453	2.9	2.8	4.4
Percentage increase:						
1958 to 1963	6	26	20	47	(X)	(X)
1954 to 1958	-1	17	33	54	(X)	(X)

X Not applicable.
[1]The total is the sum of operating establishments plus auxiliaries.

Form CB-51, Wholesale Sales Branches and Sales Offices of Manufacturing Companies.—As part of the census of business, information was collected on the sales branches and sales offices of manufacturing companies. In addition to figures on employment and payrolls, these forms requested information on inventories held at and sales, by merchandise line, from these locations. The merchandise lines in the census of business for these wholesale branches and offices are very similar to the classes of products used in the manufacturing area. The totals of the two areas cannot be directly compared inasmuch as the sales from the sales branches and offices include products which were bought and resold as well as those of the company's own manufacture.

Special Surveys Relating to the 1963 Census of Manufactures.—In addition to the information collected on the standard 1963 census of business, manufactures, and mineral industries forms, additional information was collected on special survey forms. The census of manufactures publications also contain the data collected in these various special but related surveys, as described below. The publications, described below, appear as chapters in Volume I, Summary and Subject Statistics.

Form MC-D3, Department of Defense Establishments, and *MC-D4, Penal Institutions* were used to collect information on government-owned and government-operated manufacturing establishments. These forms were used to collect information on two types of establishments: (1) Manufacturing facilities owned and operated by the Department of Defense, and (2) prison industries (Federal, District of Columbia, and State). The data were prepared with the cooperation of the Department of Defense, the Department of Justice, and the District of Columbia and State prison systems. For Department of Defense installations, information is provided on employment, man-hours, payrolls, cost and value of work done, by industry group and by State. For prison industries, however, only product data is included in the census of manufactures reports. For a detailed description of the methods used to collect this information and the data presented, see the Special Report, Manufacturing Activity in Government Establishments, at the end of this volume.

Form MC-D12, Supplementary Inquiries for 1962.—In order to reduce the burden of the 1963 census on the respondent and the Census Bureau, information on horsepower rating of equipment in place by type of equipment, fuels consumed by the type of fuel, and electric energy was collected for 1962 and restricted to those establishments included in the annual survey of manufactures. In previous censuses, this information had been requested on the standard census forms. Information is published on these items by industry, by State, and by standard metropolitan statistical area. Within State or standard metropolitan statistical area, 2-digit industry detail is provided wherever possible. For details on this special survey, see Volume I, Summary and Subject Statistics, chapters 6 and 7.

Form MA-175, Report on Shipments to or Receipts for Work Done for the Federal Government Agencies and Their Contractors and Suppliers for 1963.—To measure the impact of government procurement on the economy and on geographic areas, form MA-175 was mailed to approximately 2,500 annual survey of manufactures establishments accounting for over 95 percent of all shipments and receipts of 30 defense-oriented industries which account for the major portion of government procurement. The survey provided information on the value of products shipped to or receipts for work done for Federal agencies, their contractors, subcontractors and suppliers. The information was further subdivided into shipments or receipts on government prime contracts and to other manufacturers in the ultimate performance of Federal Government contracts.

Information on employment and value of shipments by class of product and by Federal agency is provided. Likewise, information is available for States and SMSA's by broad industry groups within each geographic area wherever possible.

Special Survey Form MA-161, Origin of Exports of Manufactured Products.—This report form was mailed to a special subsample of the annual survey of manufactures plants with 100 employees or more and exporting more than $25 thousand per year. The report provides information on the value of manufacturers' exports by State, standard metropolitan statistical area, and by industry of the producing plant.

MC-D13, Industrial Water Use, 1964.—This special survey, although collecting data for the year 1964, was conducted as part of the 1963 Census of Manufactures. The form was mailed to approximately 10,000 establishments which had indicated on their census of manufactures form consumption of 20 million gallons or more of water in 1963. Information is provided on water intake and discharge by industry and by area.

9. DEVELOPMENT OF THE MAILING LIST

The manufacturing plants included in the census of manufactures were identified as part of the overall program to develop the mailing list for the 1963 censuses of business, manufactures, and mineral industries.

The Internal Revenue Service (IRS) maintains a comprehensive list of names and addresses of legal entities with one employee or more which are required to file quarterly tax returns under the Federal Insurance Contributions Act. To each of these legal entities, IRS has assigned a unique employer identification (EI) number. Arrangements were made to obtain this list of EI numbers for the selection of those companies which were to be included in the 1963 censuses of business, manufactures, and mineral industries. Since this list contained many companies not within the scope of the economic censuses, it was matched to a similar list of EI numbers maintained by the Social Security Administration (SSA). In cooperation with IRS, the SSA assigns an industry code to every EI number based on information reported by the taxpayer when he applied for an EI number. Only those EI numbers with industry codes within scope of the economic censuses were included in the basic mailing list.

This list of EI numbers provided the industry code necessary to select the current report form and a payroll size code to determine whether a standard or a short form was to be mailed. However, the list was defective in one basic respect: The EI number applies to a legal entity and not to an individual establishment, the basic unit for which census data is required.

Therefore, it was necessary to supplement this list by contacting all known or possible multiestablishment companies to obtain a list of their individual plants or business locations. In January of 1963, a precanvass form (NC-X1, Listing of Establishments) was sent to all companies that had indicated in the 1958 Census of Manufactures or the 1962 Annual Survey of Manufactures that they were operating at more than one location. In addition, all "apparent" single-establishment companies in the IRS-SSA file of EI numbers with sizeable employment were included in this precanvass.

For the known multiestablishment companies, the Census Bureau prelisted the establishments as they had been last reported to the Census Bureau (the 1958 census except for the manufacturing companies which had reported for their manufacturing establishments in the 1962 Annual Survey of Manufactures). The company was requested to update this list by deleting closed locations, correcting the addresses, reporting the current EI numbers used for each plant, as well as adding any locations operated but not already included in the listing. The EI numbers reported for these multiestablishment companies were excluded from the list of EI numbers obtained from IRS-SSA prior to mailing the 1963 census report forms. Thus, the 1963 Census of Manufactures list for single-establishment companies was obtained from the IRS-SSA, but the list of plants of multiunit companies was obtained directly from those companies by a special precensus survey.

While the IRS-SSA list was generally adequate in providing sufficient industry and size information to determine the proper form for mailing, a number of the EI numbers did not have precise industry or size information associated with them. A special form (NC-X3, General Report) was mailed to all such companies in the 1963 censuses of business, manufactures, and mineral industries. Since it was assumed that these establishments were quite small, only limited statistics were required. On the basis of the information reported, these establishments were coded and included in the basic tabulations. If the NC-X3 indicated substantial activity, the company was recontacted with a standard census form.

The 1963 census was distributed and returned by mail. The very large complex multiestablishment companies were mailed their report forms in November 1963 to give them as much lead time as possible to meet the substantial demands of the 1963 census on their statistical staffs. Report forms for the smaller companies were mailed in January 1964. Collection was completed by August 1964. All mailing and receiving, including the various reminder mailings as well as routine editing, coding, and card punching, was done at the Census Bureau's Operations Office in Jeffersonville, Ind. The more difficult problem reports and all reports from very large companies were sent to Washington for review prior to punching. The punched data were transmitted to Washington through a telephone computer link-up and all computer processing, review of the tabulated data, and the preparation of the publications were performed there.

10. COMPLETENESS OF COVERAGE AND ACCURACY OF THE DATA

Since the 1963 mailing list was considered to be complete, no field coverage check was conducted. There was a concerted effort to assure completeness of coverage through systematic reminders at 4- to 6-week intervals including the use of certified mail, telegrams and, for the larger companies, telephone calls.

Considerable attention has been devoted to assuring completeness and correctness of the reporting by large companies. In the early stages of processing, the individual establishment reports of the very large companies were reviewed along with the company summary report, form NC-K1, to make certain that the company had included reports for all its establishments and subsidiaries and that there was no duplication in reporting among manufacturing, minerals, central offices, and sales branches and offices. The NC-K1 was also a vehicle for the company to report changes in ownership since the census precanvass was

conducted in the preceding year. Accurate company affiliation information is necessary, it should be noted, to enable the Census Bureau to review the tabulations to assure confidentiality of the data; to provide statistics for the "enterprise statistics" program; and, in manufacturing, to prepare the company concentration ratios by industry and product class. Part 2 of form NC-K1 required that the parent company reconcile its payroll figures by employer identification numbers filed with the Internal Revenue Service to those reported on the individual censuses of manufactures, business, and mineral reports. As a result of this comparison, omissions were detected as well as duplication of the reporting within the census establishment file.

As part of the computer edit of the data, all "annual suvey of manufactures" establishments in the census were matched to the list of establishments in the 1962 Annual Survey of Manufactures. All large unmatched establishments were reviewed to make certain that plants which changed ownership, were newly established, or had been closed down since 1962 were properly handled. Furthermore, during the review of the published data, whenever there was a significant change from the previous year in the totals for each industry or geographic area, the reports were checked out individually to make certain that there was no inadvertent omission or duplication in reporting between years, and that the change was valid.

All report forms in manufacturing were audited by the computer. The figures reported in 1963 by each of the 60,000 annual survey of manufactures establishments were compared to those reported in 1962. Establishments with significant increases or decreases in any data item or with significant changes in selected operating ratios (e.g., cost of materials per dollar of shipments, payroll per employee, production-worker wages per manhour, etc.) were identified for subsequent review by the Bureau's statisticians. Small establishments with problems were tentatively accepted or modified by the computer but annotated for subsequent examination.

The operating ratios of the 250,000 smaller establishments not in the annual survey of manufactures were edited against industry averages developed from the 1958 Census of Manufactures and brought up to date through the 1962 Annual Survey of Manufactures data. In the review of the tabulations prior to the publication of the final reports, the selected operating ratios for all establishments were analyzed and the mean ratio for all establishments in each industry determined. A frequency distribution of establishments according to operating ratio class was prepared, and those establishments whose ratios were more than two standard deviations from the industry average were isolated as "outliers," examined and, if necessary, corrected. A similar type of analysis was made for the individual products shipped and the individual materials consumed. A unit value was calculated for each item reported by an establishment. An industry average unit value was also calculated and a frequency distribution tabulation of unit values prepared. Extreme unit-value cases were isolated and corrected during the preliminary and final table review.

II. EXPLANATIONS OF TERMS USED IN COLLECTION AND PUBLICATION OF DATA

11. EMPLOYMENT AND RELATED ITEMS—GENERAL

The census of manufactures provides information on employment and payrolls at operating establishments and central administrative offices and auxiliaries. The standard form for operating establishments collected the number of production workers by quarter and all other employees as of the 15th of March, as well as annual payrolls for production workers and other employees separately. Form NC-X6, Central Administrative Offices and Auxiliaries, collected figures on employment as of March 15 and payrolls for the year.

In presenting the data, the employment and payrolls of central administrative offices and auxiliaries which serve manufacturing plants are included in the all-industries totals in every summary table (U.S., State, standard metropolitan statistical area, county, and city). However, whereas the operating establishments were coded to a 4-digit manufacturing industry, the administrative offices and auxiliaries were coded only to the 2-digit industry group of the establishments they served. Thus, in all tables with industry detail, the administrative offices and auxiliaries are shown as a separate industry group following the industries in Major Groups 39 and 19.

Separate statistics for all central administrative offices and auxiliaries including those of nonmanufacturing companies will be published as part of the 1963 censuses of business, manufactures, and mineral industries in *Enterprise Statistics 1963,* Part 2, Central Administrative Offices and Auxiliaries. In that publication, information will appear not only by 2-digit industry of the establishments served but also by type of function performed and industry category of owning company.

12. EMPLOYMENT OF OPERATING MANUFACTURING ESTABLISHMENTS

All Employees.—The category "all employees" comprises all full-time and part-time employees on the payrolls of operating manufacturing establishments who worked or re-

ceived pay for any part of the pay period which included the 12th and ended nearest the 15th of the months specified on the report form. At the all-industry level, the employees of central administrative offices and auxiliaries are included. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms, however, are excluded from the total.

Production and Related Workers.—This category comprises workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Supervisory employees above the working foreman level are excluded from this category.

All Other Employees.—"All other employees" are nonproduction personnel of the manufacturing establishment, including those engaged in the following activities: Factory supervision above the working foreman level, sales (including driver salesmen), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical. Also included are employees on the payroll of the manufacturing establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force.

Average Employment.—The 1963 Census of Manufactures report forms requested employment figures for "production and related workers" for four selected pay periods (i.e., production worker midmonth employment in March, May, August, and November). For "all other employees" only a mid-March figure was requested. Thus, the "annual average" of operating establishments is composed of an average of the four monthly figures for the "production workers" plus the March figure for "all other employees."

This approach was initiated in the intercensal annual surveys of manufactures to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods approximates very closely the average employment for the year that would be obtained from the 12 pay periods for almost all industries.

The employment figure shown for all industries in most tables is the 4-month average.

For a few highly seasonal industries, production-worker figures were collected for all 12 months and are shown in Volume II, table 3, for those industries.

13. PAYROLLS OF OPERATING MANUFACTURING ESTABLISHMENTS

For each industry, this total includes the gross earnings paid in the calendar year 1963 to all employees on the payroll of operating manufacturing establishments. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, all bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation; it excludes payments to the proprietor or partners, if an unincorporated concern. Also excluded are payments to members of Armed Forces and pensioners carried on the active payroll of manufacturing establishments.

The 1963 census definition of payrolls, identical to that recommended to all Federal statistical agencies by the Bureau of the Budget, is also the same as the 1958 census definition. It should be noted that this definition does not include employers' Social Security contributions, or other nonpayroll labor costs such as employees' pension plans, group insurance premiums, and workmen's compensation.

As in the case of employment figures, the payrolls of separate central administrative offices and auxiliary units of multiestablishment companies are not included in the totals for individual industries or industry groups.

14. MAN-HOURS OF PRODUCTION AND RELATED WORKERS

This total consists of all plant man-hours of production and related workers as defined above. It represents all man-hours worked or paid for at the plant including actual overtime hours (not straight-time equivalent hours.) It excludes hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. Where employees elected to work during the vacation period, only actual hours worked by such employees were reported.

Man-hours were generally well reported except in some industries, like apparel, where work is commonly performed on a piece-rate basis. However, man-hours were not collected for the very small establishments which were mailed special short forms (see section 8). Experience has shown that these small establishments have difficulty in distinguishing between production and other types of employees. Man-hours were estimated for these small establishments as well as for other nonreporters. Because estimating was largely confined to small establishments, there is no significant qualification to the validity of overall industry and geographic area totals for man-hours, except for sawmills and a few other industries characterized by small establishments. However, the man-hour figures for establishments with fewer than 10 employees, shown in the size of establishment tables, should be interpreted with this factor in mind.

15. MATERIALS

Cost of Materials, Etc., Consumed.—A summary inquiry on the 1963 census report forms requested information on the cost of materials, supplies, semifinished goods, fuels, and electric energy, actually consumed or put into production during the year and the cost of products purchased for resale, by each manufacturing establishment, whether purchased, withdrawn from inventories, or received from other establishments of the company. Included also were the costs of materials supplied by the establishment which were processed elsewhere on contract for the establishment. (The products produced elsewhere under contract for the establishment are included in the value of shipments of the establishments; see section 16, value of shipments).

"Cost" was defined as the direct charges actually paid or payable for items consumed or put into production during the year, after discounts, and including freight charges and other direct charges incurred by the establishment in acquiring the materials.

To arrive at the industry total "cost of materials, etc.," separate figures were obtained for (a) the total delivered cost of all raw materials, semifinished goods, parts, components, containers, scrap, and supplies consumed or put into production in 1963; (b) the amount paid for electric energy purchased; (c) the amount paid for all fuels consumed for heat, power, or the generation of electricity; (d) the cost of work done by others on materials or parts furnished by manufacturing established (contract work); and (e) the cost of products bought and resold in the same condition.

It should be noted that the cost of fuel consumed under "c" above does not include fuel used as a material in the manufacturing process; for example, coal used in the production of coke. Such costs were included with other materials cost in category "a" above.

The total excludes the cost of services used, such as advertising, insurance, telephone, etc., and developmental, research, and consulting services of other establishments. It also excludes overhead costs, such as depreciation charges, rent, interest, royalties, etc., and it excludes materials, machinery, and equipment used in plant expansion or capitalized repairs which are chargeable to fixed assets accounts.

For materials received from other plants of the same company or from a central materials depot (whether at the same or different physical location), the respondent was asked to value the items at their full economic value as produced, plus freight and other direct handling charges. The respondent was asked to check, where possible, that reported costs equaled the value of shipments reported for the items by the company's plant which produced and transferred the goods plus the freight and other direct charges (see value of shipments, section 16).

A summation of industry cost of materials figures to industry group totals results in large and unknown amounts of duplication, owing to the addition of costs reported by related industries engaged in successive fabrication stages in the production of finished manufactured products. For this reason, cost-of-materials figures shown at the industry group (2- and 3-digit) and all-industry levels must be used with caution. With some important exceptions (such as refrigeration machinery, radios and television receiving sets, and motor vehicles and parts), this duplication is not significant within individual 4-digit industries.

Individual Materials Consumed.—In addition to the total cost of materials which every establishment was requested to report, quantity and cost information was collected on 633 specific materials.

Of these materials, 314 were "complete coverage" materials; i.e., every industry that consumed appreciable quantities of the material was canvassed so that the data would represent at least 90 percent of manufacturing consumption. For the remaining 319 "partial coverage" materials, information on consumption was obtained on a more limited basis, generally only in those industries in which the materials were important inputs. Consumption information was also collected for an additional 492 items which were produced and consumed in the same plant as part of the product sections of the report forms.

Because American industry uses an enormous variety of materials, the number of materials for which "complete coverage" consumption data (90 percent or higher) were ob-

tained had to be strictly limited. The selection of a particular material for such coverage was, therefore, based on the following criteria:

(1) The importance of the material as measured by the total value of U.S. consumption of the material;

(2) The percentage of total consumption accounted for by manufacturing establishments;

(3) The availability of consumption information from manufacturers' records; and

(4) In certain instances, other factors such as the strategic importance of the material or the availability of historical data on the use of the material.

The materials included on a limited coverage basis were chosen not only because they constituted important inputs for particular industries but frequently because they provided information necessary to classify plants by SIC industry.

The individual materials are shown by industry of the consuming establishment in Volume II, table 7's. In Volume I, Summary and Subject Statistics, information is shown for most of the complete-coverage materials according to industry and geographic area of consuming establishment.

The data on materials consumed relate generally to the quantity and cost of materials purchased or transferred from other plants of the same company. However, for selected materials which are also importantly produced for use within the same establishment, information was requested on such "captive" production in quantity terms only.

Some undercoverage exists in the statistics for most individual materials. The undercoverage results from the fact that:

(1) Individual materials consumption information was obtained only from establishments using one of the census of manufactures standard forms, except on industries for which the short forms were modified to request consumption of a limited number of important materials. For the most part, therefore, plants with a very small number of employees are not represented in these statistics.

(2) Establishments consuming less than a specified amount of material were not requested to report consumption of the material separately. For the majority of individual materials, the mininmum amount was $5,000.

The use of such cutoffs, as well as the use of short forms, is not believed to have had a significant effect on the totals for most materials. However, for industries where a sizeable proportion of the activity is accounted for by small establishments or where a specified material is used in relatively small quantities, the above limitations may be of some consequence.

16. PRODUCTS

Value of Shipments.—Except in a few industries, the respondents were instructed to report net selling values, f.o.b. plant, after discount and allowances and excluding freight charges and excise taxes. In a few industries, specifically noted in the text of the industry chapters, Volume II, delivered prices were acceptable if delivery was included as an integral part of the plant operations, such as in the milk and bakery industries.

Manufacturers were asked to include as products shipped, not only the products made in the establishment but also those made elsewhere under contract from the materials owned by the establishment. Included were all products sold, transferred to other plants of the same company, or shipped on consignment.

In addition, manufacturers reported receipts for contract work performed for others, resales (i.e., the value of all products resold without further processing), receipts for miscellaneous activities such as sale of scrap and refuse, and the value of installation and repair work performed by the plant employees. Although the value of products bought and resold without further processing is included in the value of shipments totals for each industry, it is excluded from the figures for individual products or classes of products.

Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; i.e., to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

Individual Products.—In the 1963 census program, information was collected on the output of approximately 10,000 individual product items. The term "product" as used in the census of manufactures represents the finest level of detail for which output information was requested. Consequently, it is not necessarily synonymous with the term product as used in the marketing sense. In some cases it may be much more detailed and in other cases it is more aggregative. For example, "pharmaceutical preparations" was distributed

into nearly 100 items, whereas, "automotive gasoline" was reported as a single item.

Some 6,000 of the product items were listed separately on the 1963 census report forms. Data for the remaining 4,000 products were obtained in the monthly, quarterly, or annual surveys comprising the Current Industrial Reports series of the Census Bureau.[8] Totals for the year 1963 for these items as derived from the commodity surveys are shown in the "products shipped" table (table 6) in the industry chapters of Volume II together with the tieline total value collected in the census for reconciliation. Appendix F contains a complete listing of the surveys in the Current Industrial Reports program with page references in Volume II where the data appear.

The list of products for which separate information was collected was prepared after consultation with industry and government representatives. Comparability with previous figures was given considerable weight in the selection of product categories so that comparable 1958 information is presented for most products.

Typically, both quantity and value of shipments information was collected. However, if there was no meaningful physical quantity measure that could be reported by manufacturers, only value of shipments was collected.

As mentioned earlier, shipments include both commercial shipments and transfers of products to other plants of the same company. For industries in which a considerable portion of the total shipments are transferred to other plants of the same company, separate information on interplant transfers was also collected. Moreover, for products which are used to a large degree within the same establishment as materials or components in the fabrication of other products, total production and often consumption of the item within the plant was collected. Typically, the information on production was also collected for products for which there are significant differences between total production and shipments in a given year because of wide fluctuations in finished goods inventories. Alternate measures of output of products, such as value of work done for products with long production cycles, were used as appropriate and feasible.

Classes of Products.—For the purpose of summarizing the product information, the separate products were aggregated into classes of products which were, in turn, grouped into all primary products of each industry. The code structure used is a 7-digit number for the individual product, a 5-digit code for the class of product, and a 4-digit code for the total primary products in an industry (see section 6 for application of coding structure to the assignment of SIC codes for establishments).

The 10,000 product items in the 1963 census (including products from the Current Industrial Reports program) were grouped into approximately 1,100 separate classes. Products were grouped into product classes to bring out significant differences in the broad types of products within a 4-digit industry. General similarity of the kind or purpose of the products or of the manufacturing processes, type of markets, or of materials used, were the basis for product combinations. The economic significance of the class was also taken into account; residual products of an industry were grouped when the products were not sufficiently significant in dollar value to warrant separate classes.

As a result of the increased number of respondents included in the product-class shipments totals, these categories lend themselves to many more cross tabulations than do the 7-digit products, without disclosing information about the operations of individual companies. In the industry chapters of Volume II, table 6D provides information on the value of shipments of product classes by State; and table 5B, by industry of the establishment producing them. The latter table is the best vehicle for showing the primary and secondary product mix of an industry, as well as the interrelationship between the 4-digit industry value of shipments and the 4-digit product group value of shipments. In table 8, the product class is used to provide finer industry-type general statistics by classifying establishments within an industry according to the degree to which they specialize in producing a specific class of products.

The class of product concept was incorporated by the Census Bureau into its own program with the 1947 Census of Manufactures after it developed the technique in the compilation of World War II production statistics. Product classes formed the basis of collecting product information in the annual survey of manufactures when that survey was initiated in 1949. The classes have been revised over the succeeding years to improve the balance and significance of product combinations within each industry and to keep abreast of the growth and decline of products.

17. INDEXES OF PRODUCTION AND UNIT VALUE.

Based on the type of quantity and value statistics shown in table 6A's of the Industry Volume, preliminary indexes of production and unit value (value of shipments divided by quantity of shipments) have been constructed for the primary products of the industry produced or shipped by all producers, including those in other industries. These indexes are shown in table 6B's of the industry

[8] See 1963 Census of Manufactures, MC63–2, **Numerical List of Manufactures Products,** and MC63–1, **Alphabetic List of Manufactures Products.**

chapters. The 1958 unit values were used as weights in construction of a weighted aggregative production index. A unit-value index, weighted by quantity of production or shipments, was also constructed. The latter index was used, where necessary, to deflate value of shipments of products for which no satisfactory quantity data were available.

A special census of manufactures report will be issued, in cooperation with the Federal Reserve Board, on indexes of production, consolidating the information shown in the 6B tables into group and total indexes and discussing in some detail the objectives and methodology of the indexes and the data problems and limitations. That report will contain revisions of the table 6B indexes and will include indexes for some industries not previously published.

18. INDUSTRY AND COMMODITY APPROACHES TO VALUE OF SHIPMENTS

In the census of manufactures tables, value of shipments figures are shown for 4-digit industry and 4-digit product groups which are primary to an industry. Both categories are identified by the same 4-digit number and title. However, the two sets of figures must be distinguished carefully in use.

Under the industry approach, each plant is assigned to one or the other of the approximately 425 4-digit industries. This is done primarily to secure information on payrolls, man-hours, cost of materials, value added by manufacture, and other matters which relate to the operations of the entire plant. As part of this process, the entire shipments of the plant are also assigned to a particular industry. This will include its output not only of products classified in the industry (primary products) but of products classified in other industries as well (secondary products) and miscellaneous receipts and resales. The value of shipments on an industry basis appears in tables described as "General Statistics" (e.g., most tables in Volume I; and tables 1, 2, 3, 4, and 8 in Volume II).

Tables 6A through 6C in the industry chapters of Volume II are tabulated on a commodity basis and provide value-of-shipments figures for 4-digit product groups as well as 5-digit product classes and 7-digit products on a wherever-made basis. The 4-digit value figures are derived by aggregating the values of individual products (or product classes) shipped, irrespective of the industry code of the establishment shipping them. Thus, the 4-digit product-group total avoids the complications of secondary products and miscellaneous receipts inherent in the 4-digit industry value of shipments.

From census to census, the value figures for some 4-digit product groups show greater stability than the comparable 4-digit industry value of shipments. The latter includes the contribution of some establishments which are highly diversified and only marginally coded to the industry. Minor and temporary shifts in product mix could reclassify such establishments from one industry to another without any substantial or permanent change in their operations. In the annual survey of manufactures and the 1963 Census of Manufactures, this erratic shifting was minimized by the application of a resistance factor which required that large establishments (100 employees or more) be reclassified only if there was a very substantial shift in product mix or evidence that the newer product mix remained stable over a number of years. (See also section 6 above.)

19. DUPLICATION IN COST OF MATERIALS AND VALUE OF PRODUCTS

The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. With some important exceptions, such as motor vehicles and parts, this duplication is not significant within individual 4-digit industries. However, it is significant at the 2-digit and 3-digit industry groups because these totals often include industries which represent successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the "Food Group" and the addition of pulp mills to paper mills in the "Paper and Allied Products Group" of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication—the value of finished manufactures—tends to approximate two-thirds of the total value of products reported in the census of manufactures.

Because the amounts of duplication contained in the cost of materials and value of products figures cannot be measured with any degree of precision, these data are not shown in the geographic area tables (Volume III) and caution is urged with their use when they are provided at the 2- and 3-digit industry group level in Volumes I and II.

Even where no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs to value of shipments, both among industries and within the same industry.

The difference between the industry and the commodity approach can be illustrated by the example of fabricated structural steel.

While the major share of the output of these products comes from plants which are principally engaged in their production, substantial quantities are also manufactured by plants classified in other industries, such as boiler-shop products, sheet-metal work, and miscellaneous metal work. At the same time, plants classified in the fabricated metal products industry also manufacture products of other industries. The resultant overlapping is evident from the excerpt from table 5B in the Industry Volume, below.

Thus, it will be seen that of the total shipments of $1,916 million by plants classified in the fabricated structural metal industry, $1,432 million consisted of products of this industry, while $237 million consisted of products of other industries, and $247 million of miscellaneous receipts. Shipments of fabricated structural steel products totaled $1,604 million, of which $172 million was contributed by plants classified in other industries.

It should be noted that the figures shown in table 5B for the total value of shipments of the 5-digit product classes and the 4-digit product groups are the subtotals and totals of the individual products in table 6A which bear the same first 5-digit and 4-digit code numbers.

In order to measure the extent to which industry and product statistics may be compared, two measures have been developed—the "specialization ratio" and the "coverage ratio." The specialization ratio measures the extent to which the plants in an industry specialize in making the products primary to that industry. It is derived by dividing the total output (both primary and secondary products) of the industry's plants into their output of products primary to the industry. Thus, in the above illustration, the specialization ratio is 0.86; that is, shipments of fabricated structural steel products account for 86 percent of all products made and shipped by plants in that industry (1,432 ÷ 1,669 = .86). The coverage ratio measures the extent to which the products primary to an industry are shipped by plants classified in that industry. In the illustration, the coverage ratio is 0.89; that is, 89 percent of all shipments of fabricated structural steel products was made by plants primarily engaged in the manufacture of these products (1,432 ÷ 1,604 = .89). These ratios appear in tables 1 and 5A in the industry chapters, Volume II, and in appendix B, industry descriptions, Volumes I, and III.

In table G, industries are grouped by 1963 specialization and coverage ratios. In 1963, as in 1958, approximately 95 percent of manufacturing employment is included in industries with specialization of 80 percent or higher. Nine of 412 industries, for which the industry (primary product) specialization ratio was published for 1963, had ratios of 100 percent and 218, with 56 percent of the employment in all industries for which the ratios were published, had ratios between 90 and 99 percent. Only 29 of the 412 industries showed ratios below 80 percent. The higher the ratio, the smaller the output of secondary products; conversely, the lower the industry specialization

Excerpt from table 5B in Industry Chapters– INDUSTRY PRODUCT ANALYSIS–VALUE OF SHIPMENTS: 1963

(Millions of dollars)

Product class code	Class of products and miscellaneous receipts	All industries	Fabricated structural metal (SIC 3441)	Other industries
	Total shipments of the industry	(X)	1,916	(X)
3441-	Fabricated structural steel, total	1,604	1,432	172
34411	Fabricated structural metal for buildings	984	894	[1]90
34412	Fabricated structural metal for bridges	225	210	[2]15
34413	Other fabricated structural metal	287	221	[3]66
34410	Fabricated structural metal, n.s.k	108	107	1
.....	Secondary products	(X)	[4]237	(X)
.....	Miscellaneous receipts (contract work, repair work, sales of scrap, resales, etc.)	(X)	247	(X)

[1]Includes $21 million shipped from industry 3443, boiler shop products; $11 million shipped from industry 3444, sheet-metal work; $10 million from industry 3449, miscellaneous metal work, n.e.c.; and $7 million from industry 3731, shipbuilding and repair.

[2]Includes $2 million shipped from industry 3443, boiler shop products.

[3]Includes $9 million shipped from industry 3443, boiler shop products, and $2 million from industry 3446, architectural metal products.

[4]Includes the following products: 34421, metal doors and frames (except storm doors), $7 million; 34422, metal window sash and frames (except storm sash), $3 million; 34432, fabricated steel plate, $31 million; 34438, metal tanks and vessels, custom fabricated at the factory, $7 million; 34441, sheet-metal roofing, siding, and drainage equipment, $15 million; 34442 culverts, flumes, irrigation pipes, $8 million; and 34443, other sheet metal work, $8 million.

TABLE G. Frequency Distribution of Industries by 1963 Primary Product Specialization and Coverage Ratios

Ratio class	Primary product specialization ratio			Coverage ratio		
	Number of industries	Employees		Number of industries	Employees	
		Number (1,000)	Percent of total		Number (1,000)	Percent of total
Total.....	[1]412	15,937	100	[2]413	15,494	100
100 percent.....	9	163	1	15	583	4
90 to 99 percent.....	218	8,954	56	186	8,220	53
80 to 89 percent.....	156	5,760	36	121	4,021	26
70 to 79 percent.....	21	631	4	45	1,436	9
60 to 69 percent.....	6	409	3	23	672	4
Under 60 percent.....	2	20	([3])	23	562	4

[1]Excludes 13 industries with 297 thousand employees.
[2]Excludes 12 industries with 740 thousand employees.
[3]Less than 0.5 percent.

ratio, the higher the output of secondary products. Lower industry specialization ratios give evidence of diversity of output by an industry and overlap with other industries. Over time, decreasing industry specialization ratios would be a manifestation of the need for revision of the classification structure.

20. VALUE ADDED

Value added by manufacture is derived by subtracting the total cost of materials (including materials, supplies, fuel, electric energy, cost of resales and miscellaneous receipts) from the value of shipments (including resales) and other receipts and adjusting the resulting amount by the net change in finished products and work-in-process inventories between the beginning and end of the year.[9]

[9] For a few industries (e.g., aircraft, ship building) where value of work done is substituted for value of shipments, no adjustment is made for change in inventories. In a few other industries where value of production is collected, the inventory adjustment is made only on the basis of change in work-in-process inventories.

Value added avoids the duplication in the value of shipments figure which results from the inclusion of the shipments of establishments producing materials and components along with the shipments of establishments producing finished products. It does not exclude, as described in the paragraph below, purchased services. Nevertheless, it is considered to be the best value measure now available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Value added by manufacture should not be confused with "national income originating in manufacturing," as presented in the national income by industrial origin estimates compiled by the Office of Business Economics (OBE), Department of Commerce. (See tables H and I.) The latter measure is the sum of factor costs incurred by an industry in production and is, therefore, a more "net" concept of value added than that used in the census of manufactures. "Income originating" excludes,

TABLE H. Comparison of National Income Originating in Manufacturing and Value Added by Manufacture

(In billions of dollars)

Year	National income originating in manufacturing[1]	Value added by manufacture	Col. (1) divided by col. (2)	Year	National income originating in manufacturing[1]	Value added by manufacture	Col. (1) divided by col. (2)
1963.....	143.8	192.1	0.75	1956.....	113.1	144.9	0.78
1962.....	137.0	179.3	0.76	1954.....	94.6	117.0	0.81
1961.....	125.1	164.2	0.76	1947.....	59.5	[2]74.3	0.80
1960.....	125.8	164.0	0.77	1939.....	18.1	24.5	0.74
1959.....	124.0	161.3	0.77	1935.....	13.4	18.5	0.72
1958.....	107.7	141.5	0.76	1933.....	7.7	14.0	0.55
1957.....	116.3	147.8	0.79	1929.....	21.9	30.6	0.72

[1]Source: National Income and Product Accounts of the U.S., Survey of Current Business, August 1965, p.42; July 1966, p. 15.
[2]1947 and earlier figures are unadjusted value added.

TABLE I. Comparison of National Income Originating and Value Added, by Major Industry Group: 1963

(In billions of dollars)

Code	Industry group description	National income originating[1]	Value added by manufacturing	Col. 1 divided by col. 2
	Manufacturing	143.8	192.1	0.75
	Nondurable goods	57.5	83.4	0.69
20	Food and kindred products	13.4	21.8	0.61
21	Tobacco manufactures	1.2	1.7	0.71
22	Textile mill products	4.7	6.1	0.77
23	Apparel and other fabricated textile products	5.6	7.9	0.71
26	Paper and allied products	5.1	7.4	0.69
27	Printing, publishing, and allied industries	7.3	10.5	0.70
28	Chemicals and allied products	10.4	17.6	0.59
29	Petroleum refining and related industries	4.6	3.7	1.24
30	Rubber and miscellaneous plactics products	3.3	4.6	0.72
31	Leather and leather products	1.7	2.1	0.81
	Durable goods	86.2	108.7	0.79
24	Lumber and wood products, except furniture	3.5	4.0	0.88
25	Furniture and fixtures	2.3	3.1	0.74
32	Stone, clay, and glass products	5.0	7.0	0.71
33	Primary metal industries	11.5	15.3	0.75
34	Fabricated metal products	9.2	11.8	0.78
35	Machinery, except electrical	14.0	17.3	0.81
36	Electrical machinery	12.3	17.0	0.72
19	Transportation equipment and ordnance, except motor vehicles	10.4	25.6	0.87
37	Motor vehicles and motor vehicle equipment	11.8		
38	Instruments	3.5	4.0	0.88
39	Miscellaneous manufacturing industries	2.5	3.6	0.69

Source: Survey of Current Business, July 1966 p. 15.

in addition to cost of materials, such other costs as depreciation charges, State and local taxes (other than corporate income taxes), allowance for bad debts, and purchases of services from nonmanufacturing enterprises, such as contract costs involved in maintenance and repair, services of development and research firms, services of engineering and management consultants, advertising, telephone and telegraph expense, insurance, royalties, patent fees, etc.

In part, the national income originating estimates are prepared from company rather than establishment data. This method results in the inclusion of some part of the net value added by nonmanufacturing establishments of companies classified as being primarily manufacturing, and conversely, in the exclusion of some part of the net value added by manufacturing establishments of companies classified as primarily *nonmanufacturing*. It is believed that for manufacturing as a whole the net effect increases income originating. (In fact, in the Petroleum and Coal Products major industry group, nonmanufacturing activities of manufacturing companies are so significant that this is the one major industry group in which OBE "income originating" exceeds Census "value added by manufacture.")

Figures are not available to permit a reconciliation of the estimates for value added in manufacturing and the national income originating in manufacturing for the current period. However, in 1957, the Census Bureau conducted a special survey, MC-D11, "Selected Costs and Assets of Manufacturing Establishments," which collected information on some of the costs included in value added for services purchased from other sectors or excluded from the national income estimates. These specific costs which accounted for about $15 billion of the $148 billion of value added in 1957 were maintenance and repairs, $4.5 billion; insurance, $.7 billion; property taxes, $1.5 billion; rental payments, $1.4 billion; and depreciation, $7.3 billion. The residual value added, $132 billion was approximately $16 billion in excess of national income of $116 billion.

Table J presents an approximate reconciliation of national income and value added figures for manufacturing in 1957. The national income estimates for payrolls and other fac-

TABLE J. 1957 Comparative Statistics on Value Added and National Income in Manufacturing

(In billions of dollars)

Item	Value added	National income[1]
Total	$147.8	$112.5
Payrolls	89.4	87.9
Payrolls of operating manufacturing establishments	76.4	
Supplements to wages in operating manufacturing establishments	6.0	[2]80.6
Payrolls of central administrative offices and auxiliaries, sales branches and offices of manufacturing companies	[4]7.0	[3]7.2
Other factor incomes (Corporate profits, proprietary income)	24.6	24.6
Costs of manufacturing establishments reported on MC-D11	15.4	(X)
Not part of national income:		
Depreciation	7.3	(X)
Property taxes	1.5	(X)
Probably included in other sectors:		
Maintenance and repairs	4.5	(X)
Rental payments	1.4	(X)
Insurance	0.7	(X)
Other costs (Company overhead (other than payrolls included above); e.g., depreciation, business taxes, and services purchased at the company level; and services purchased directly by plants (advertising, legal, accounting, and other professional services; communications, patent fees, royalties, travel costs, etc.)	18.4	(X)

(X) Not applicable.
[1]Prior to 1958 revisions of national income.
[2]Payrolls.
[3]Supplements to wages.
[4]Estimated based on figures reported for 1958 in the census of business, manufactures, and minerals.

tor income in that year are based on the unrevised national income figures which are somewhat lower than the revised estimates appearing in table H. It should be noted that the labor costs included in national income and value added are reasonably close despite the fact that they are computed on a slightly different basis. If the proprietary and profit incomes of the company-based national income estimates are allocated to the establishments included in the census of manufactures, value added exceeds national income by $35 billion of which $15 billion is attributable to costs reported on survey MC-D11. Somewhat more than half of the $35 billion excess represents the inclusion in value added by manufacture of purchased business services arising in other economic sectors; the remainder reflects conceptual differences arising from the inclusion in value added of indirect business taxes and depreciation which are excluded by definition from national income.

21. INVENTORIES

The value of beginning-of-year and end-of-year inventories, respectively, held by each manufacturing establishment was obtained in the 1963 census. Separate inventory figures were requested for (1) finished products; (2) work in process; and (3) materials, supplies, fuel, and other inventories.

Respondents were asked to report their inventories at approximate current costs, if feasible; otherwise "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the value of inventories aggregate for all establishments in an industry is not precise. The figures on change in inventory between the beginning and the end of the year are of considerably greater significance.

In using inventory data by stage of fabrication for all industries and at the 2-digit industry level, the following should be noted: An item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and all manufacturing which are merely aggregates of figures reported by establishments in specified

industries. Further, the total finished goods inventory for "all manufacturing" includes items that are not finished manufactured products.

For a few industries in the food group, there are special problems in the handling of inventories by stage of fabrication. These are industries in which the production cycle is short, the products are usually stored under controlled conditions, and the products are aged. Included among such types of products are meat products, stemmed and dried tobacco cheese, and whiskey. It is not clear whether such products should be treated as finished goods inventories or as work in process while in storage.

In the meat processing industries, establishments were allowed to report finished products and work in process combined as finished products. In the distilling industry, products stored for aging were to be reported as finished products. In all foods industries, substantial finished goods inventories have been reported. These data have been summarized in the inventory tables in a consistent manner for all of the years included in this report.

22. EXPENDITURES FOR PLANT AND EQUIPMENT

In the 1963 census, manufacturers were asked to report expenditures made during the year for permanent additions and major alterations to their plants, as well as for new machinery and equipment purchases, that were chargeable to fixed asset accounts of manufacturing establishments and were of a type for which depreciation accounts are ordinarily maintained. Expenditures for machinery and equipment were to include those made for replacement purposes, as well as for additions to plant capacity. Excluded from such expenditure totals are costs of maintenance and repairs charged as current operating expense; new facilities and equipment leased from nonmanufacturing concerns; new facilities owned by the Federal Government but operated under contract by private companies; and plant and equipment furnished to the manufacturer by communities and organizations.

In addition to total capital expenditures, respondents were requested to indicate the following subtotals: (a) New structures and additions to plant (including major alterations and capitalized repairs and improvements); (b) new machinery and new equipment (including capitalized repairs and improvements); and (c) expenditures for used plant and used equipment acquired from others (including the U.S. Government). In most tables of these publications, the statistics on capital expenditures are confined to a total of new plant and equipment (items "a" and "b" above). However, in table 3 of the industry chapters in Volume II, and in Expenditures for Plant and Equipment, chapter 5 in Volume I, separate figures are shown for each type of expenditure.

The figures include (a) the expenditures made at manufacturing plants that were in operation during any part of the year, plus (b) expenditures made at plants that were not as yet in production. The data on capital expenditures for plants not in production at the end of 1963 were collected on a separate report form (MA-101) requesting companies to report the value of new plant and new equipment put in place during the year. The form also requested description of the type of products that would be made so that the establishment could be classified into a 4-digit industry. This form was sent to (a) the 1,500 largest manufacturing companies; (b) all other companies which indicated on the census of manufactures establishment report form or the "Listing of Establishments" Form NC-X-1 that they had one or more manufacturing plants under construction but not yet in operation at the close of 1963.

The Census Bureau estimates of capital expenditures tend to be lower than those published in the joint Office of Business Economics-Securities and Exchange Commission survey. (See table K below.) In addition to normal sampling variation, a major source of differences is to be found in the scope of the two series. Census data relate only to manufacturing establishments, whereas the OBE-SEC series cover all establishments of manufacturing companies—nonmanufacturing as well as manfacturing. This factor is particularly important in the petroleum industry where company expenditures for developing new wells and new distribution facilities are ordinarily much larger than their capital expenditures at refineries. On the other hand, manufacturing establishments of companies engaged primarily in nonmanufacturing activities are excluded from the OBE-SEC series but included in Census figures.

TABLE K. Expenditures for New Plant and Equipment for Manufacturing–OBE-SEC and Census of Manufactures Compared

(In billions of dollars)

Year	OBE/SEC	Census	Census as percent of OBE/SEC
1963.....	$15.7	$11.4	0.73
1962.....	14.7	10.0	0.68
1961.....	13.6	9.8	0.72
1960.....	14.5	10.0	0.69
1959.....	12.1	9.3	0.77
1958.....	11.4	9.6	0.84
1954.....	11.0	8.2	0.74
1947.....	8.7	[1]6.0	0.69

Source: U.S. Department of Commerce, Office of Business Economics Business Statistics, 1963, and the Census of Manufactures.

[1]Excludes plants under construction but not yet in operation.

Both series, it should be noted, exclude expenditures for plant and equipment at establishments owned by the Federal Government but operated under lease or contract by private companies.

23. FUELS, ELECTRIC ENERGY, AND POWER EQUIPMENT

In industry table 7B, Volume II, and in chapter 6, Volume I, information on the use of detailed fuels and electric energy and on the horsepower of power equipment in place is provided for the year 1962. This information was collected as part of the 1963 Census of Manufactures on a special sample survey, "MC-D-12, Supplementary Inquiries for 1962." The information was collected for the year prior to the regular census in order to reduce the reporting burden on the respondents and the tabulation burden on the Bureau of the Census during a major census year. The survey report form was mailed to all establishments included in the 1962 Annual Survey of Manufactures. Insofar as these figures are based on a sample, they must be considered approximations and subject to sampling error. A more complete discussion of the compilation and limitations of these data appear in the introductory text to chapter 6, Volume I.

Totals for prime movers and electric motors are shown separately. The horsepower ratings for "prime movers" include information for such types of power equipment as internal combustion engines, steam and hydraulic turbines, and reciprocating steam engines. The totals for prime movers are further separated between those driving electric generators and those used for other purposes. The statistics for prime movers not driving generators exclude data for automobiles, trucks, and other highway equipment.

The aggregate horsepower figure represents the unduplicated rating for total installed equipment and thus provides a measure of the mechanical power available in manufacturing establishments. The figure is derived by summing the horsepower rating of prime movers and that for electric motors driven by purchased electricity. To secure the latter figure, the total horsepower for electric motors was distributed, by establishment, into two categories: Motors driven by purchased electricity and motors driven by energy generated at the establishment. For the relatively small number of establishments which both generate and purchase electricity, the total horsepower for electric motors was prorated on the basis of the ratio of the net quantity purchased to the net total for electricity consumed.

As in past censuses, respondents were requested to report horsepower of stand-by equipment as well as equipment in operation at the end of the year, including all prime movers and motors in mobile (except automobiles, trucks, and other highway equipment) as well as in stationary equipment.

Separate data are shown for coal, coke, fuel oil, gas, and other fuels used for heat and power; purchased electric energy; electric energy generated by manufacturing establishments; and energy generated less sold. Total figures for purchased fuels and electric energy were published as part of the 1962 Annual Survey of Manufactures at the 2-digit major group and selected 3-digit industry group levels.

24. PLANT SPECIALIZATION DATA

As discussed above, the relationship between the product output and the statistics on employment, payrolls, cost of materials, and value of shipments for an industry can be measured by the specialization ratio and the coverage ratio for the industry. At the aggregate industry level, these data relationships are presented in tables 5A and 5B of the industry reports. For each establishment, two measures of its degree of specialization are prepared: (1) A 4-digit primary product-specialization ratio which is the sum of the values of all the plant's primary products divided by the sum of all its primary and secondary products; and (2) a 5-digit primary product-class specialization code which is the sum of the largest 5-digit product-class value divided by the sum of its primary and secondary products (contract work and miscellaneous receipts and resales are not included in these calculations). For example, assume that an establishment reported the following:

Total value of shipments	$1,000
Miscellaneous receipts and resales	15
Total products shipped	985
32721 Concrete pipe products	100
32722 Precast concrete products	785
32730 Ready mixed concrete	100

This plant would be coded into the 4-digit SIC industry 3272, *Concrete Products,* with a primary product specialization ratio of 90 percent ($885 ÷ 985); it would be subclassified into the 5-digit class 32722, *Precast Concrete,* with a primary product class specialization ratio of 80 percent.

In the census of manufactures, general statistics (employment, payrolls, cost of materials, value of shipments, etc.) have been tabulated to 4-digit industry and 5-digit primary product-class levels on the basis of assigning the plant totals to the principal 4- and 5-digit codes representing its output. Table 8 of the industry chapter, Volume II, provides general statistics for those 4- and 5-digit industry categories with subtotals for the two largest specialization classes (90 percent and over, 75 to 90 percent). Not all industries and product classes can be shown in table 8 without disclosing figures for individual companies.

Certain product classes are primary to more than one industry. The industry classification of establishments primarily producing such classes of products is determined on the basis of the kind of operation performed in the establishment; e.g., making the product from purchased materials or from materials produced at the same location. In the plant specialization data (table 8), product classes primary to two or more industries are shown in each of the respective industries. For each industry, the specialization data by industry and product class include only those establishments producing the class of product in the manner defined (e.g., lubricating oils from purchased materials).

Table 8 of the Industry Volume permits analysis of an industry in terms of the differences introduced by variation among establishments in the degree of specialization in the products of the industry or a subgroup (5-digit). For example, where the ratios of various statistics tend to be different for establishments specializing to different degrees in the products of the industry or in different product classes, the ratios for the industry as a whole would be significantly affected by shifts in product mix. It should be noted that for those industries in which a production process results in the manufacture of byproducts or other similarly higher correlated products which are separate product classes in the census, the degree of specialization in each of the product classes tends to be somewhat lower.

Differences in the degree of integration of production processes within establishments are often more important than the element of product mix. A partial measure of differences arising from this factor can be derived for some industries through the metalworking operations or other equipment data. For some other industries, data on the production and use of products within the same establishments may be used as an approximate measure.

III. SPECIAL INQUIRIES, REPORTS, AND PROCEDURES

25. SPECIAL INQUIRIES

Selected Metalworking Operations.—For all industries in SIC Major Groups 35 and 37, and for selected 4-digit industries in Groups 19, 33, 34, 36, and 38, the 1963 census included a special inquiry on "Selected Metalworking and Related Operations" to provide a measure of certain metalworking and related facilities in manufacturing. The following operations were included in this inquiry: foundry (iron or steel); foundry (nonferrous, except die castings); die casting (nonferrous metal only); forging—presses, hammers, or upsetters; electroplating and other plating; galvanizing and other hot-dip coating; heat treating of metals for production purposes; automatic screw machine department; machine shop; tool and die shop, if separate from machine shop; pattern shop (foundry patterns only—metal, wood, etc.); plate or structural fabrication; stamping, blanking, and forming of metals; painting, lacquering, and enameling of metals; plastics molding; assembly of product; and shipping department (including packing and crating).

In Volume I, Chapter 9, Selected Metalworking Operations, the number of establishments performing these operations and the number of production workers engaged in these operations classified by size of the specific operation are shown by industry in table 1 and, for selected operations, by geographic division and State in table 2. The size distribution is based on the number of production workers usually employed in the operation. In addition, for selected industries, the actual number of man-hours worked by production workers in specified operations is also shown. The metalworking operations data by industry are also presented in table 9 of the industry chapters in Volume II.

Information on selected metalworking operations was obtained for practically all industries where such operations are important. For individual industries or groups of industries, the inquiry on metalworking and related operations was tailored to fit the principal operations that were characteristic of those industries.

In many industries, however, small establishments reported on a short form that did not include the inquiry on metalworking operations. Also, a few larger establishments that filed standard forms did not report their metalworking operations. This has resulted in an understatement of the number of establishments maintaining specific operations, primarily in the smallest size class, and to a much smaller degree an understatement of the total number of production workers in the operation.

An approximation of the coverage in terms of number of production workers is provided for both industry and geographic totals. The coverage for most industries is over 90 degree an understatement of the total number larger establishments predominate.

For foundry operations, the number of plants operating foundries consists of the number reporting the operation for each industry plus the number of establishments classified in the foundries industries. For forgings operations, the number of plants operating forge shops consists of the number reporting the operation for each industry plus the number of establishments classified in the forgings industries. In footnotes to table 1,

1963 data are shown for the number of establishments classified in these industries. For example, in addition to establishments shown in the table as operating foundries and die casting facilities, the number of establishments classified in the foundry industries is given in the footnote. In the State table, separate columns have been included giving the number of establishments classified in these industries in each State. Similarly, the form used by respondents in industry 3471, Planting and Polishing, did not include the metalworking inquiry. Consequently, data for establishments in these latter industries were presented in the same manner as for the foundry industries.

A limited inquiry covering machine shops and pattern-shop operations was included for the foundry industries, and an inquiry covering machine shops and tool and die shops was included for the forgings industries.

Selected Equipment Data.—An inventory of textile equipment in place was obtained for a number of the important machines used in the basic textile industries. These data, grouped by type of operation or industry activity of the plant, are shown in a separate chapter in the Industry Volume. Information regarding the coverage of the inquiry is also shown.

Special Departmental Reports.—For paper plants, stone and clay plants, steel plants, aluminum rolling mills, brass mills, and nonferrous wire drawing and insulating plants, where vertically integrated activities are characteristic of establishment operations, selected employment information regarding certain departmental activities was obtained in the 1963 census, as had been done in the 1958 census. Information relating to pulping departments, printing employment, and presses in paper and paperboard converting plants, quarrying activities, and selected operations in steel plants, aluminum rolling mills, brass mills, and nonferrous wire drawing and insulating plants is shown in the chapters for these industries in the Industry Volume.

Distribution of Products or Sales.—There was a series of special inquiries which collected information on the distribution of specific products; e.g., sales of packaged milk by retail and wholesale routes; the number and payroll of delivery employees engaged in the milk, bakery, soft drink, and beer industries; sale of books and storage batteries by class of customer; the circulation of periodicals by type of periodical and frequency of issue; production of shoes and slippers by type of construction.

The data resulting from these selected special inquiries on the standard census forms appear in the chapters for the industry in Volume II.

26. SUBJECT REPORTS SHOWN IN VOLUME I, SUMMARY AND SUBJECT STATISTICS

In Volume I, there are several summary reports on inventories, capital expenditures, size of establishments, type of organization, power equipment in place, fuels and electric energy, materials consumed, water use, shipments of defense-related products, operations of government-owned establishments, exports of manufactured products, and the degree of concentration in manufacturing.

Most of these chapters are merely summarizations or special compilations of data reported on the standard census forms and presented in the industry or area chapters. Others, however, are the result of information collected on special surveys. The introduction to each of these latter reports describes the report form used, and the sampling or compilation techniques used to assemble the data.

The following chapters which are recompilations of basic data reported on the census of manufactures report forms should be noted.

Size of Establishment.—Each establishment in the census is coded not only to an industry and geographic location but also by its size based on the average number of employees for the year. These size tabulations provide significant insight into the variations in operating ratios among plants within an industry and between industries. Information on the number of establishments, employment, payrolls, value added, value of shipments, and capital expenditures is presented for 10 employment size classes in each industry in table 4, Volume II, and in chapter 2, Summary Volume I. In Volume I, size information at the 2-digit industry and all-manufacturing levels is presented.

Type of Organization:

Multiunit, Single-Unit Establishments.—Information on whether plants are independent or part of multiestablishment companies contributes importantly to our knowledge of the structure of manufactures in the United States. However, this classification is affected by the way the census of manufactures is conducted. Prior to the 1954 census, the census of manufactures was conducted independently and the multiunit classification was assigned if the company operated more than one manufacturing plant. Beginning in 1954, it has been part of the overall census of business, manufactures, and mineral industries and the multiunit classification applies to companies that may have only one manufacturing plant but also operate separate retail, wholesale, service, or minerals establishment, or a separate administrative office.

The proportion of employees and of value added by manufacture accounted for by multiunit plants has grown rapidly since 1947. (See table L.)

TABLE L. Multiunit Plants as a Percentage of Total Manufacturing

Year	Employees	Value added by manufacture
1963	68	76
1958	65	74
1954	61	68
1947	56	59

However, some of the increase from 1947 to 1954 was a consequence of taking the censuses of manufactures, mining, trade, and services simultaneously in 1954, but not in 1947.

Legal Form of Organization.—Each establishment was asked to report the forms of organization of the company which operated it; e.g., corporation, partnership, proprietorship, cooperative. In chapter 3, Volume I, selected general statistics are shown for each 4-digit industry for each of these forms of business organization. Cooperatives are combined with "other" forms of business organization because of the disclosure problems. In manufacturing, about half the plants are operated by corporations but these plants account for about 95 percent of value added by manufacture.

Concentration Ratios in Manufacturing.—In chapter 11 of Volume I, information is provided on the share of all manufacturing accounted for by the 50, 100, 150, and 200 largest manufacturing companies ranked by their total value added in manufacturing for 1963, 1958, 1954, and 1947. Information is also shown for the share of value of shipments in each 4-digit industry accounted for by the 4, 8, 20, and 50 largest companies in each of these industries. A description of the methods used in compiling these data accompanies the tables in Volume I.

27. IMPUTATION OF DATA

Each "key" census total called for on the standard forms had its counterpart in the various short forms. The short forms, however, did not require the detailed distribution of such totals (see section 8, The Census Report Forms). It was necessary, therefore, to impute figures for these missing detail items in order to publish universe totals of manufacturing activity.

Imputation of missing items, which was done on an industry basis, was made feasible by use of the Census Bureau's high-speed electronic computer. The procedures for imputation were of two types: (1) Production workers, production-worker wages, and man-hours were imputed from fixed ratios specified in advance from historical relationships of these items to total employees and total payroll; (2) other items, such as capital expenditures and inventories, were imputed on the basis of their historical relationship to value of shipments. Missing detail was generally imputed on the basis of the historical relationship of the item to its respective total.

For industries characterized by establishments of some size, the percentage of imputation of general measures such as employment and payrolls, cost of materials, inventories, expenditures, and the like is negligible; for the industries in which small establishments account for a significant portion of the total, the percent may go as high as 10 or 25, but this occurs only in a handful of industries. Of the various statistics, man-hours worked tended to have a higher degree of imputation than the other items due to difficulties in reporting those data by small and medium-size establishments.

The major exceptions to the imputation procedure for missing data were the detailed products and materials, metalworking operations, and equipment inquiries. The value of products and the cost of materials, parts, supplies and containers for establishments not reporting the detailed inquiries were treated as "unspecified" materials or products in the appropriate tables. For metalworking operations and equipment, the statistics were based on establishments reporting data, with appropriate measures of coverage shown in the tables.

28. CONFIDENTIALITY OF DATA FOR INDIVIDUAL COMPANIES

The Bureau of the Census is prohibited by law from publishing any statistics that disclose information reported by individual companies. In the 1963 census, as in previous censuses, preference was given to geographic regions and divisions over individual States in applying disclosure rules; similarly, States took precedence over standard metropolitan areas, while such areas were given preference over counties, and counties over cities. In tables showing industry detail, major industry group (2-digit) totals were given preference over industry group (3-digit) totals which, in turn, had precedence over individual (4-digit) industries. Similarly, in product tables, 4-digit product groupings took precedence over 5-digit product classes; the latter were given precedence over individual 7-digit products.

Such order of precedence was used because (1) it was considered preferable to show

regional data for an industry, even at the cost of withholding data for some (usually the least significant) State in a region, rather than to show all publishable data for the individual States and group the disclosure States throughout the United States in an "all other" category as was done in the 1939 and earlier censuses; and (2) by giving preference to industry group statistics over individual industries within each State, the extent to which individual States can be compared within the SIC industry classification framework is increased.

For each producing State not shown separately in table 2 of the Industry Volume, a footnote gives the number of establishments and either an employment range or the actual employment figure. The employment is shown in a range if the State had less than 1,000 employees, and the employment data represented the total for only one or two companies, or if the exact figure would permit deriving (by subtraction) the number of employees in other States represented by only one or two companies. In addition, figures for States with less than 100 employees are shown only in the footnote together with the number of establishments and employment in a range.

In the Area Volume, figures are not shown for a county or for an industry within a State, metropolitan area, or principal industrial county if the publication of such statistics would disclose information for individual companies. In table 4 of that Volume, however, the number of establishments is shown for every county and the number of employees for most counties represented by three or more companies. Moreover, all counties having manufacturing establishments are included in table 7, showing for each county, the distribution by employment size of establishments in each major industry group.

A special series of publications entitled "Location of Manufacturing Plants" was originally developed for the 1954 census and has been continued in subsequent censuses. In these publications are tables showing the number of establishments cross-classified by 4-digit industry, county, and employment size class. This is the maximum information which can be provided at such narrow industry-area-size categories without disclosing figures for individual companies. These data are designed to meet the needs of (a) those involved in economic development programs at the regional, State, and local area levels, (b) those engaged in industrial market analysis or allocation of sales territories, and (c) those concerned with industrial dispersion, regional shifts of industry, and similar problems. For a more complete description of the content of these publications, see the publication statement in the introduction of this volume.

For industries with few establishments or considerable geographic concentration, it has frequently been necessary to use geographic regions broader than the traditional nine census divisions in order to show all plants by some geographic grouping. For this purpose the following combinations of Census divisions have been used:

NORTHEAST
- New England
- Middle Atlantic

NORTH CENTRAL
- East North Central
- West North Central

SOUTH
- South Atlantic
- East South Central
- West South Central

WEST
- Mountain
- Pacific

29. ABBREVIATIONS

The following abbreviations and symbols occur frequently in tables and footnotes:

—	Zero
X	Not applicable
NA	Not available
n.e.c.	Not elsewhere classified
n.s.k.	Not specified by kind
lin.	Linear
equiv.	Equivalent
hp	Horsepower
kw.-hrs.	Kilowatt-hours
D	Withheld to avoid disclosing figures for individual companies
SIC	Standard Industrial Classification

Other abbreviations, such as lb., gal., yd., doz., and bbl., are used in the customary sense. Where the term "tons" only is used, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons" or "gross tons."

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Chart 1

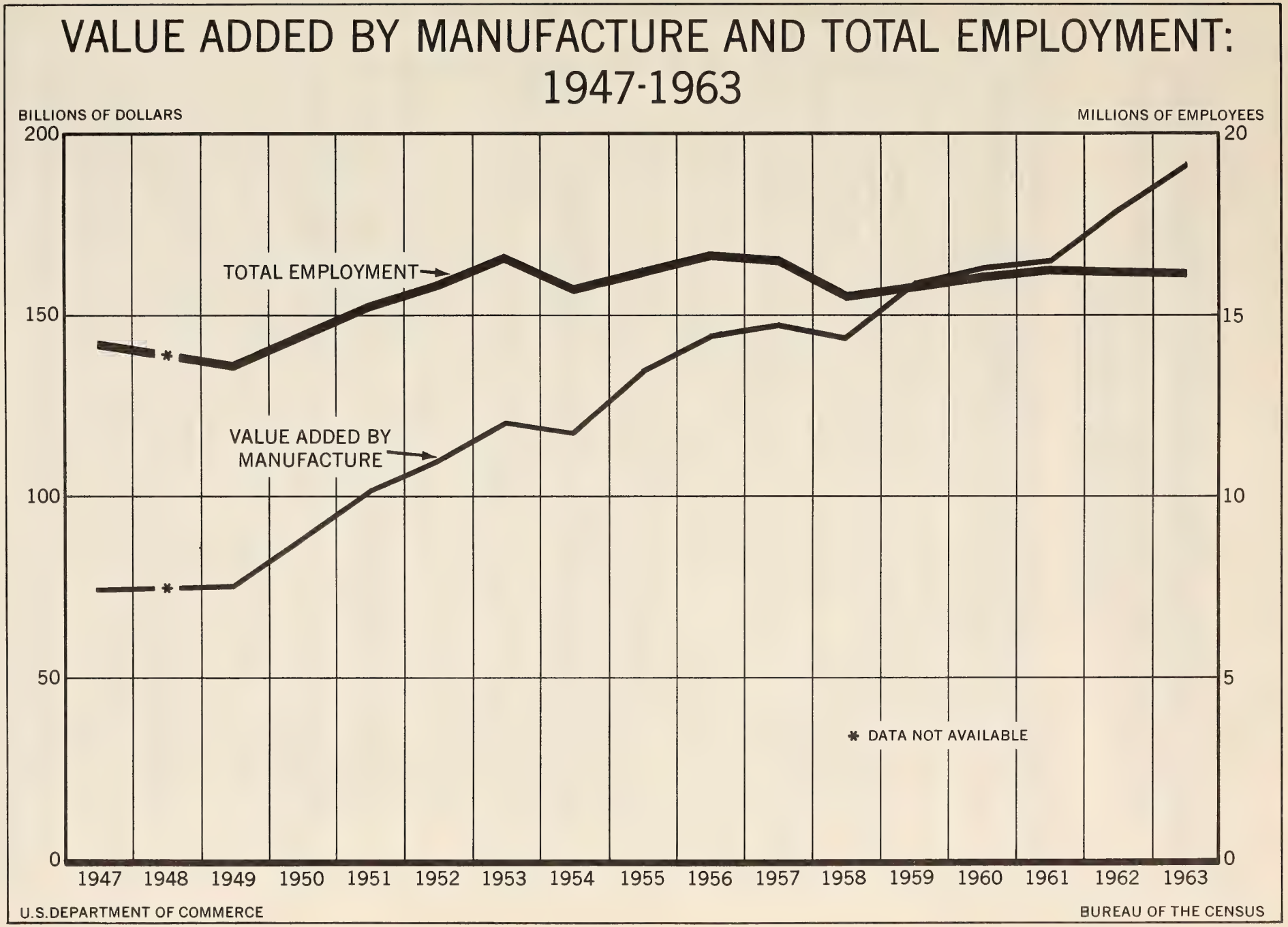
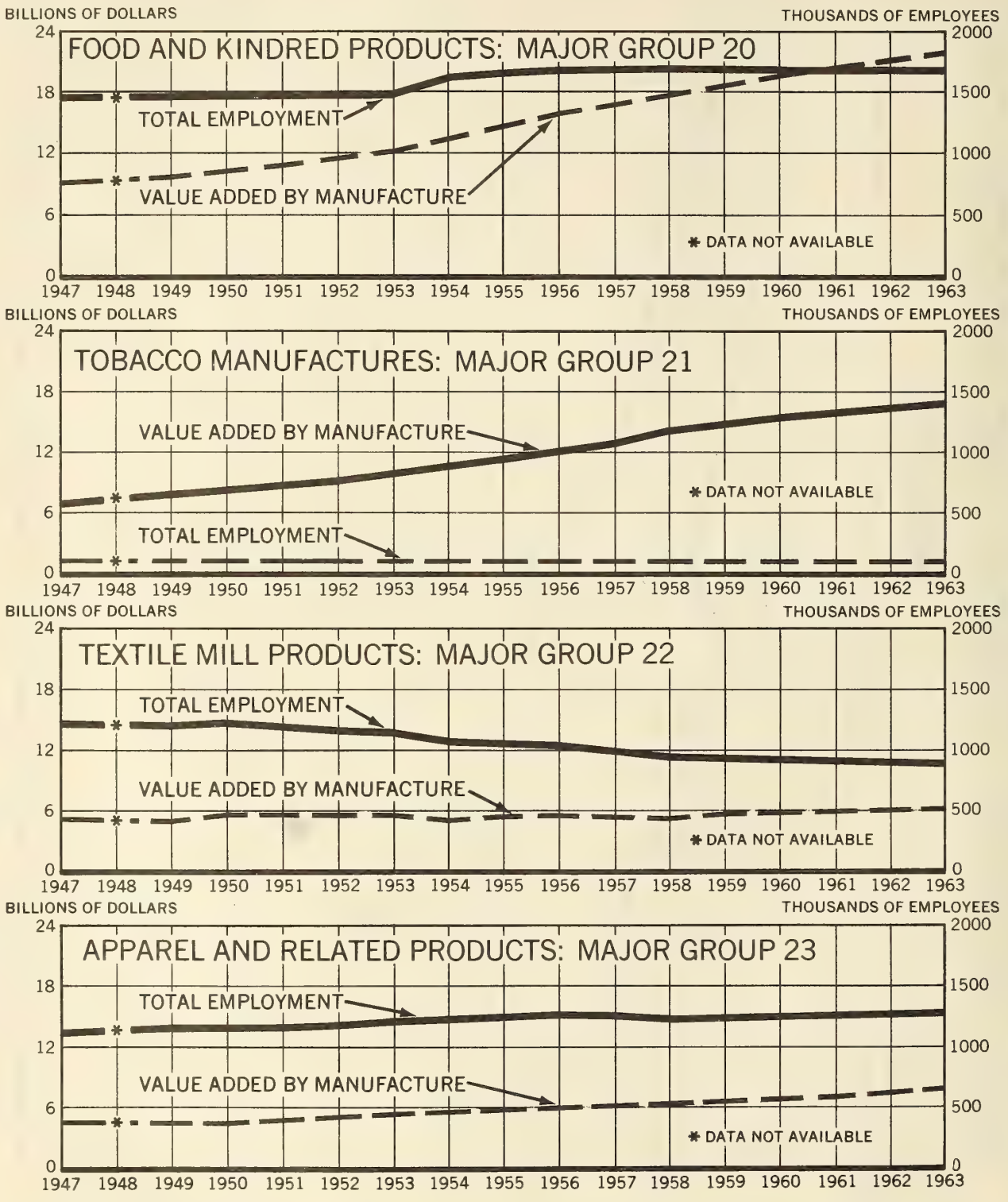

VALUE ADDED BY MANUFACTURE AND TOTAL EMPLOYMENT: 1947-1963
BILLIONS OF DOLLARS
MILLIONS OF EMPLOYEES
200
150
100
50
0
20
15
10
5
0
TOTAL EMPLOYMENT
VALUE ADDED BY MANUFACTURE
* DATA NOT AVAILABLE
1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963
U.S.DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

Chart 2

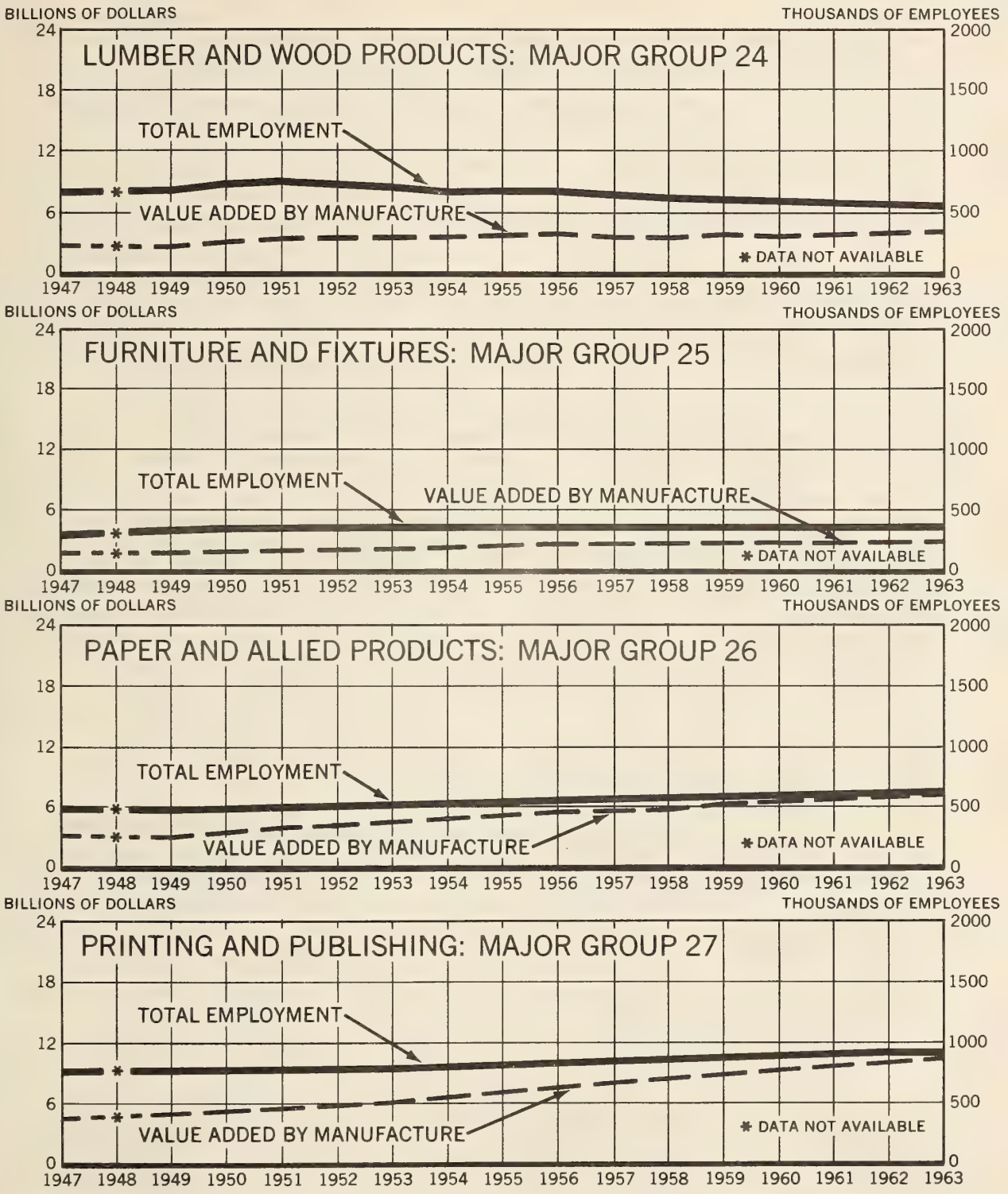
VALUE ADDED BY MANUFACTURE AND TOTAL EMPLOYMENT, FOR EACH MAJOR INDUSTRY GROUP: 1947-1963



U.S. DEPARTMENT OF COMMERCE — BUREAU OF THE CENSUS

Chart 2--Continued

VALUE ADDED BY MANUFACTURE AND TOTAL EMPLOYMENT, FOR EACH MAJOR INDUSTRY GROUP: 1947-1963



U.S.DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

Chart 2--Continued

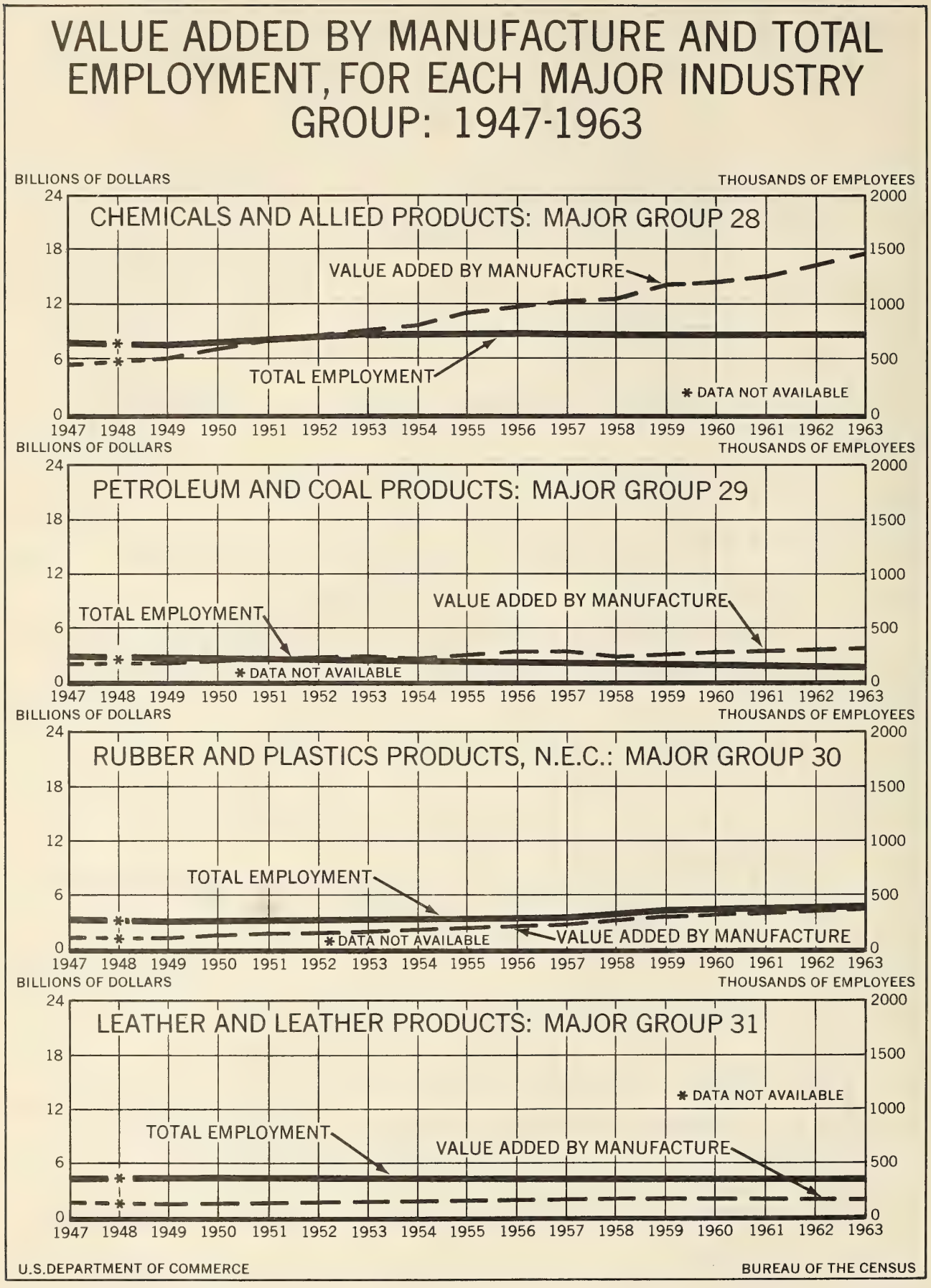
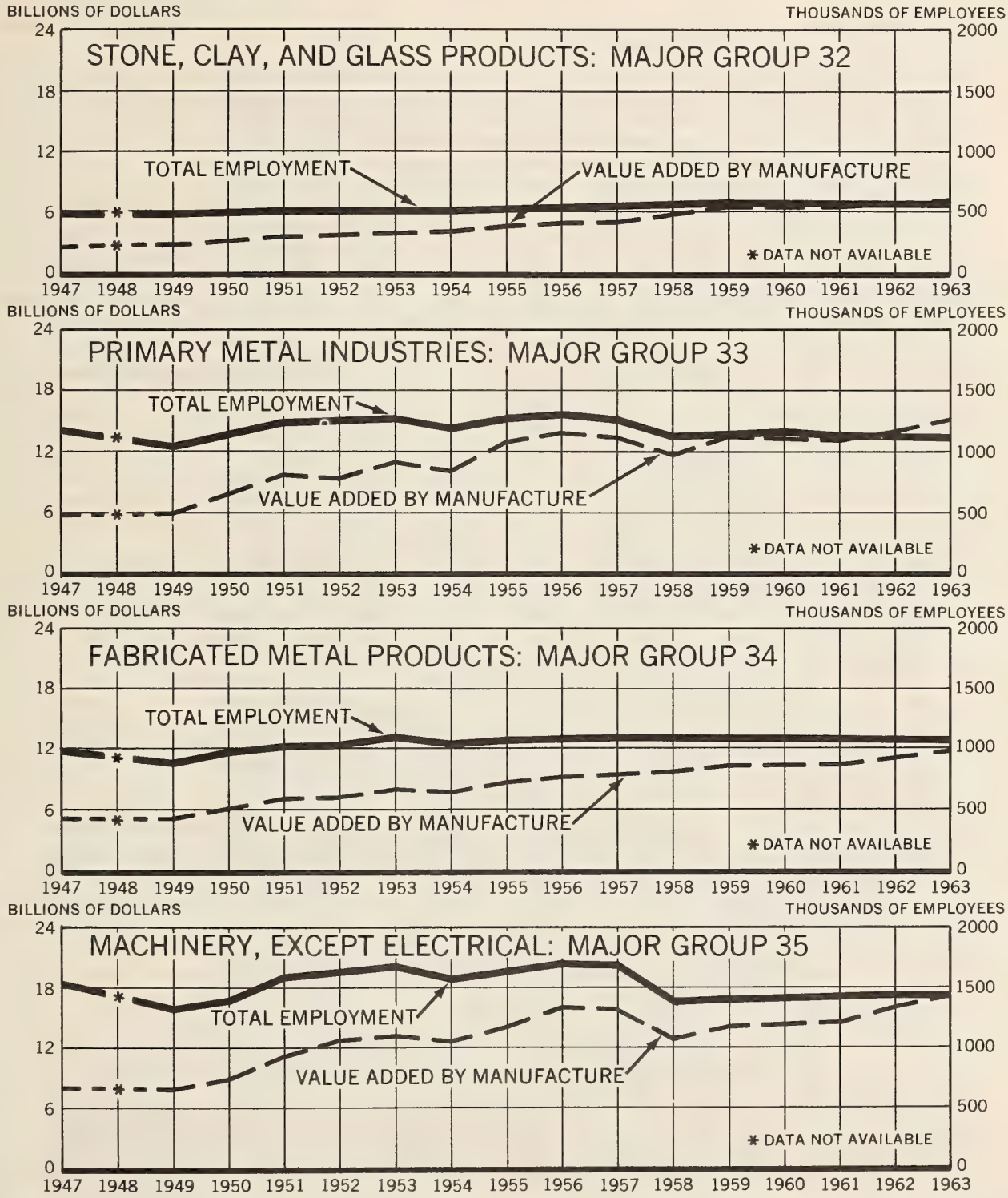


Chart 2--Continued

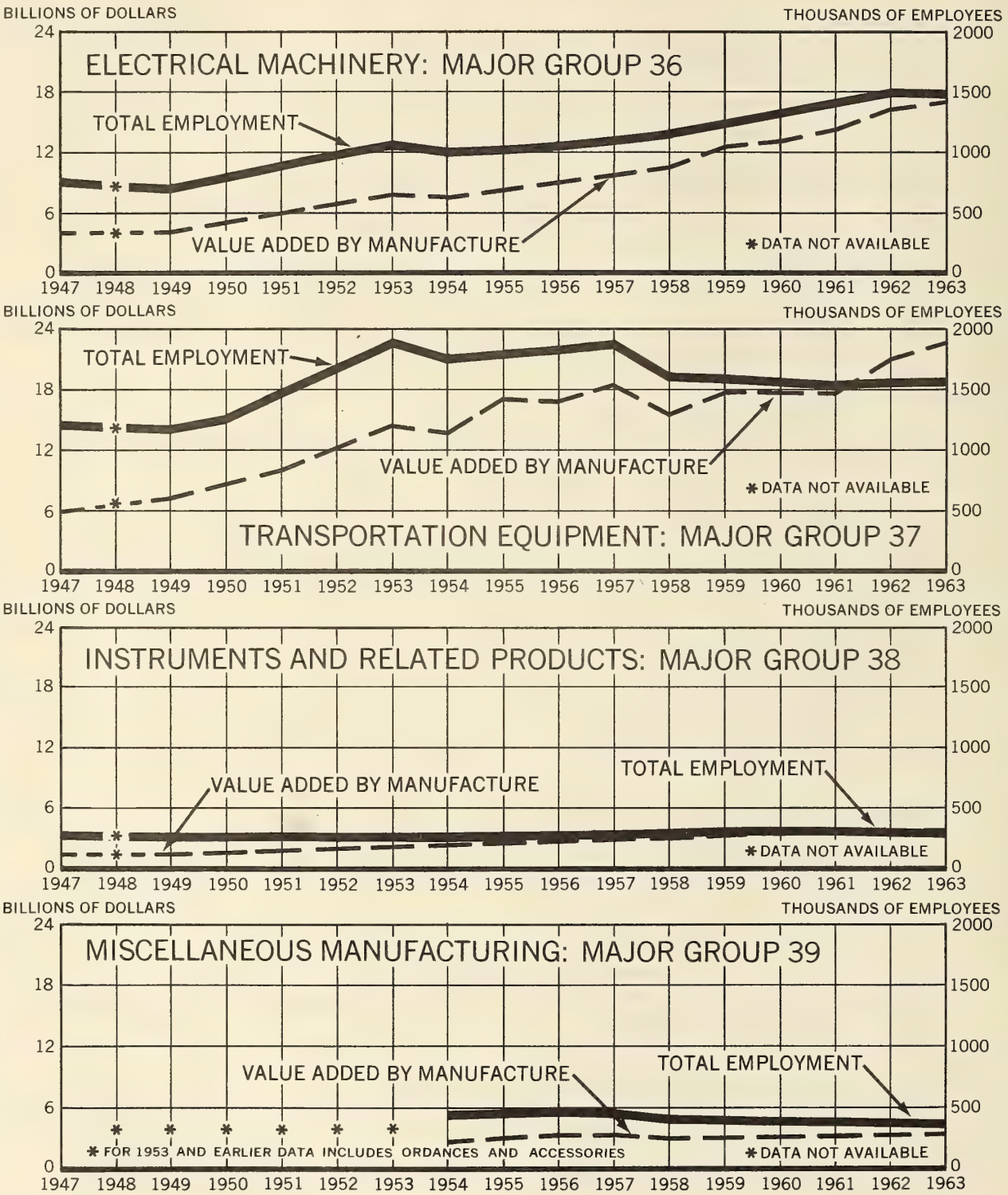
VALUE ADDED BY MANUFACTURE AND TOTAL EMPLOYMENT, FOR EACH MAJOR INDUSTRY GROUP: 1947-1963



U.S. DEPARTMENT OF COMMERCE — BUREAU OF THE CENSUS

Chart 2--Continued

VALUE ADDED BY MANUFACTURE AND TOTAL EMPLOYMENT, FOR EACH MAJOR INDUSTRY GROUP: 1947-1963



U.S. DEPARTMENT OF COMMERCE — BUREAU OF THE CENSUS

Chart 3

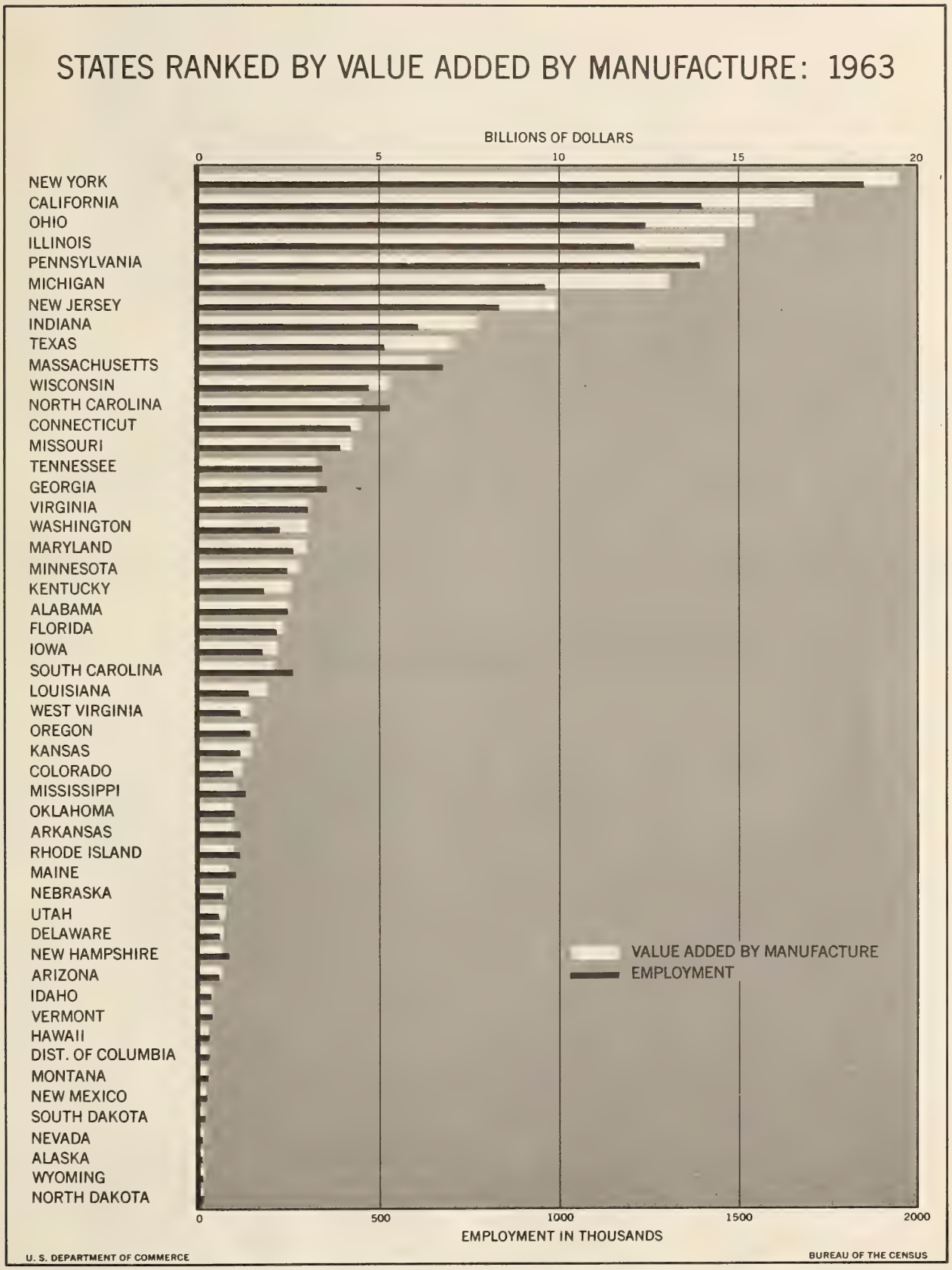

STATES RANKED BY VALUE ADDED BY MANUFACTURE: 1963
BILLIONS OF DOLLARS
0
5
10
15
20
NEW YORK
CALIFORNIA
OHIO
ILLINOIS
PENNSYLVANIA
MICHIGAN
NEW JERSEY
INDIANA
TEXAS
MASSACHUSETTS
WISCONSIN
NORTH CAROLINA
CONNECTICUT
MISSOURI
TENNESSEE
GEORGIA
VIRGINIA
WASHINGTON
MARYLAND
MINNESOTA
KENTUCKY
ALABAMA
FLORIDA
IOWA
SOUTH CAROLINA
LOUISIANA
WEST VIRGINIA
OREGON
KANSAS
COLORADO
MISSISSIPPI
OKLAHOMA
ARKANSAS
RHODE ISLAND
MAINE
NEBRASKA
UTAH
DELAWARE
NEW HAMPSHIRE
ARIZONA
IDAHO
VERMONT
HAWAII
DIST. OF COLUMBIA
MONTANA
NEW MEXICO
SOUTH DAKOTA
NEVADA
ALASKA
WYOMING
NORTH DAKOTA
VALUE ADDED BY MANUFACTURE
EMPLOYMENT
0
500
1000
1500
2000
EMPLOYMENT IN THOUSANDS
U. S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

Chart 4

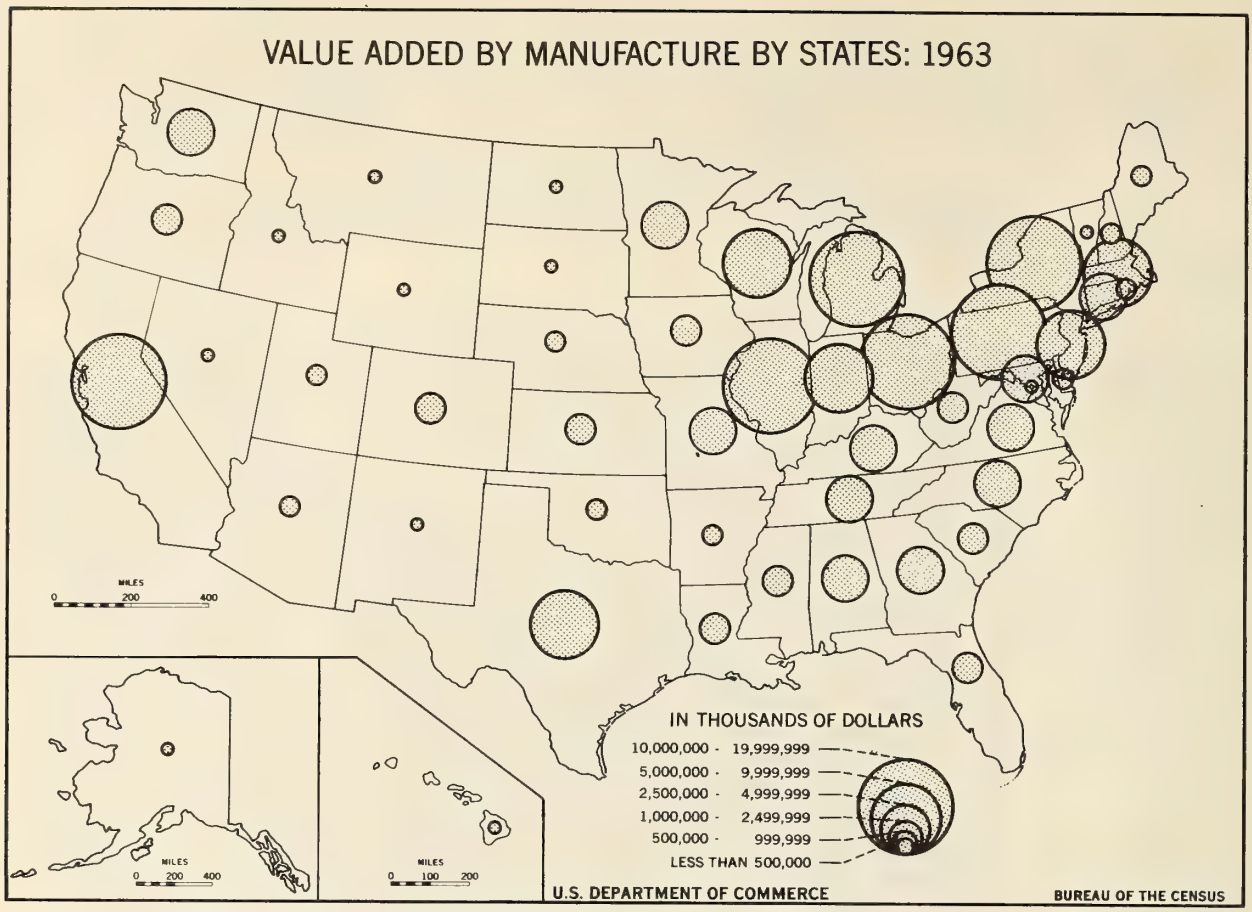


Chart 5

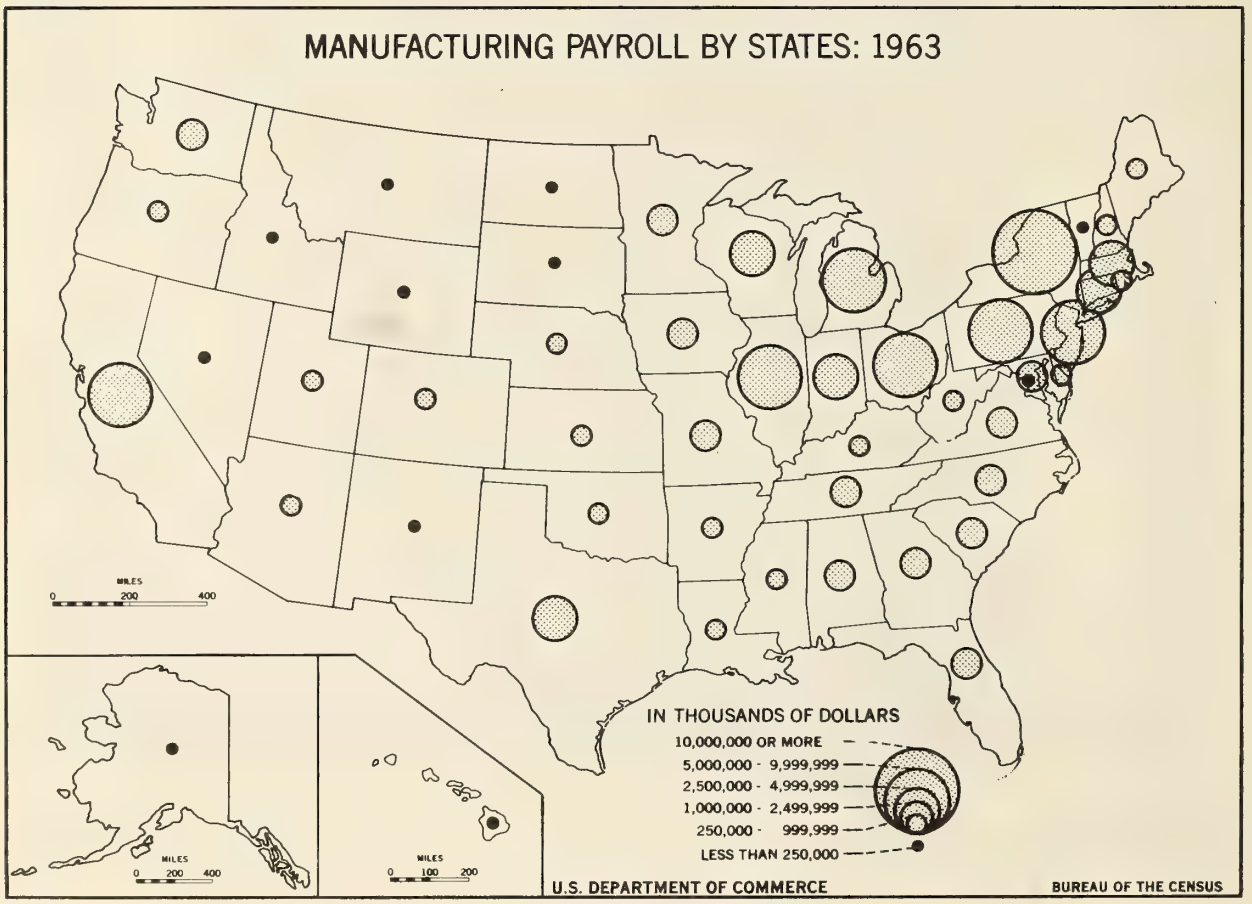


Chart 6

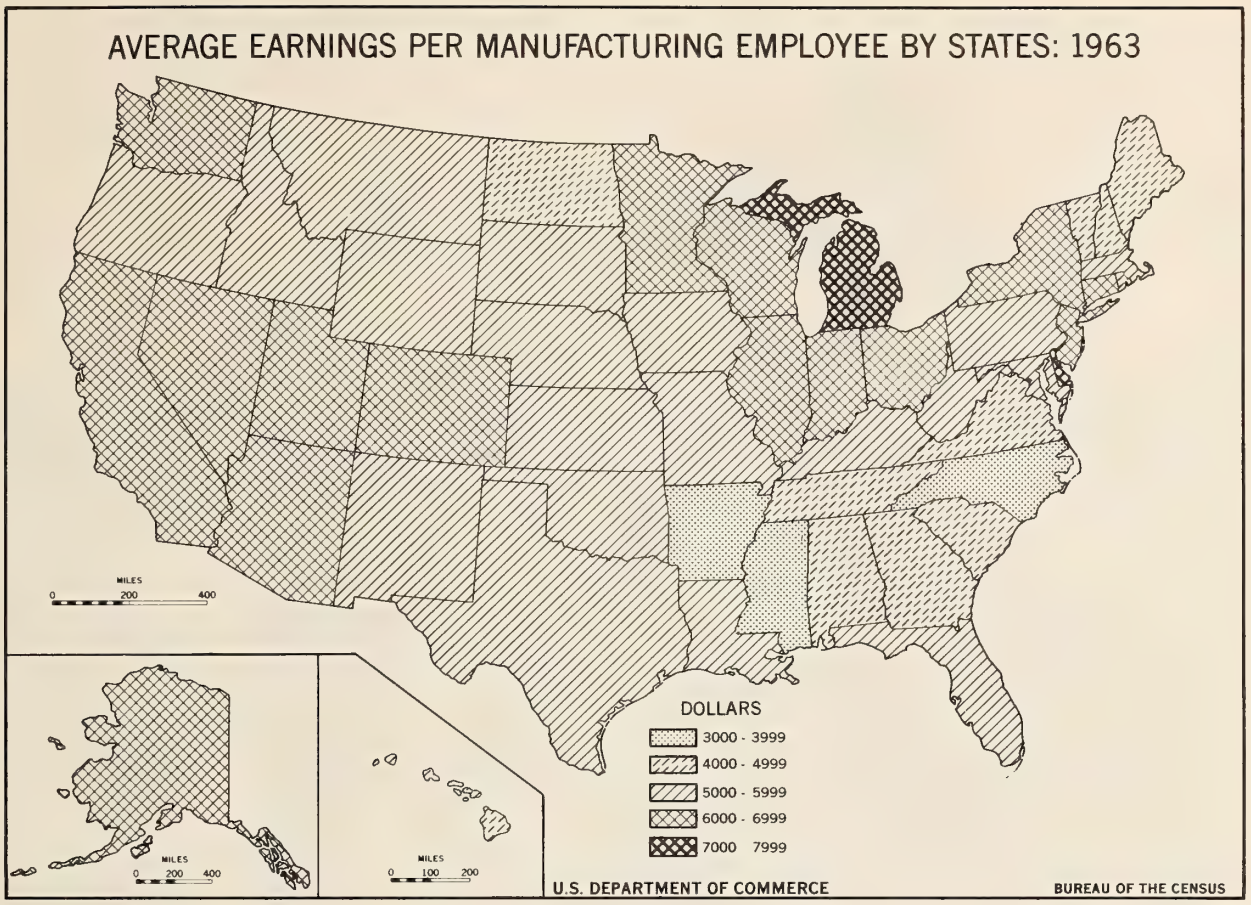


Chart 7

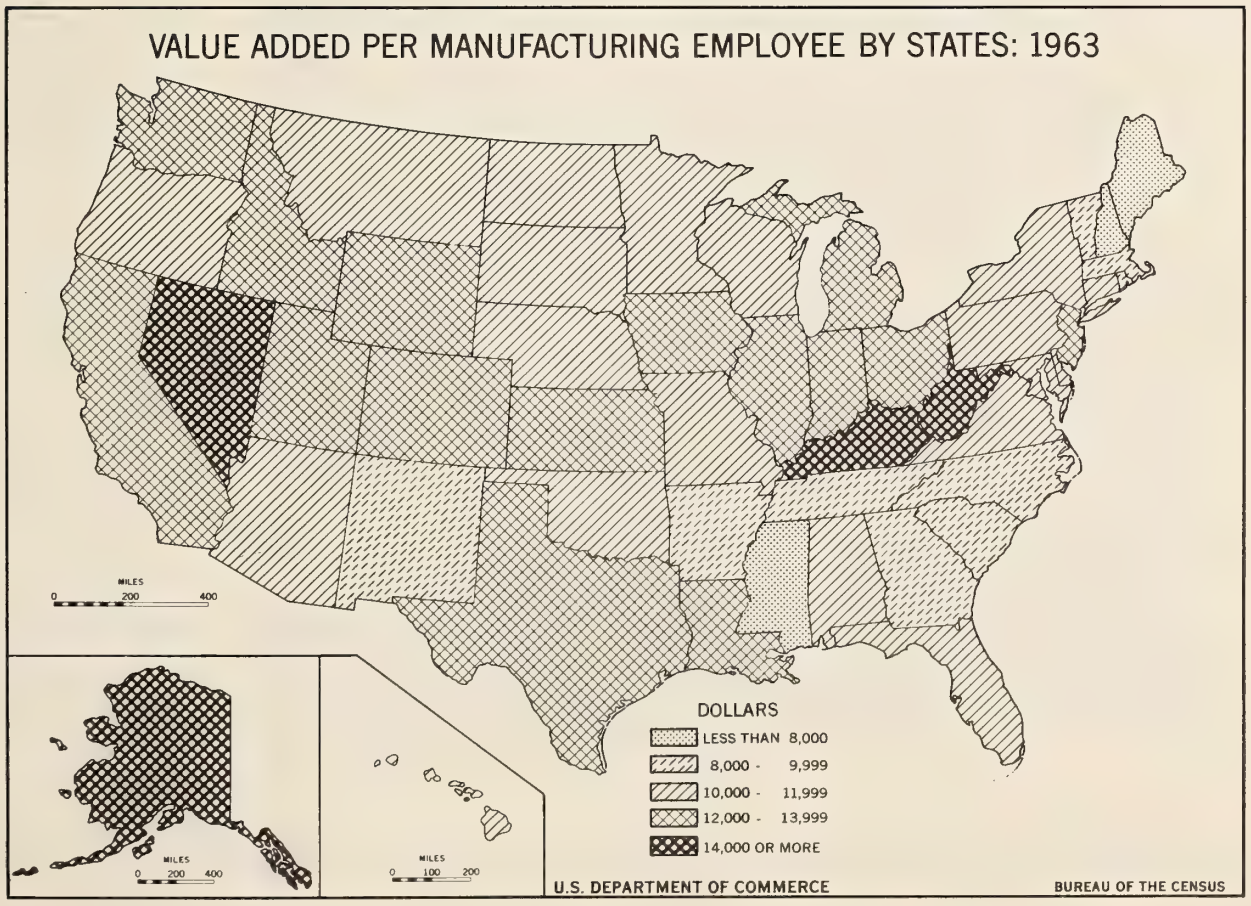


Chart 8

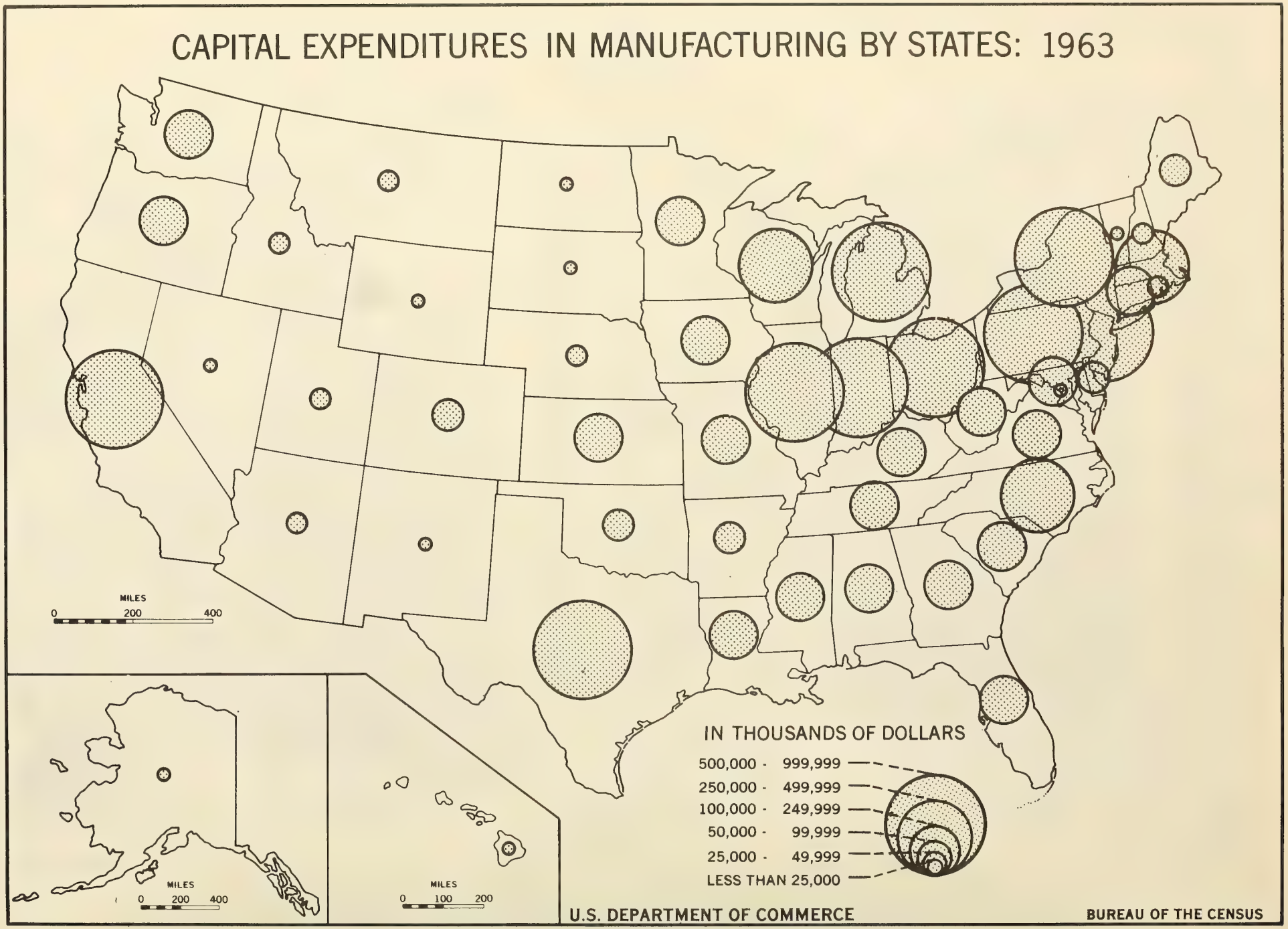
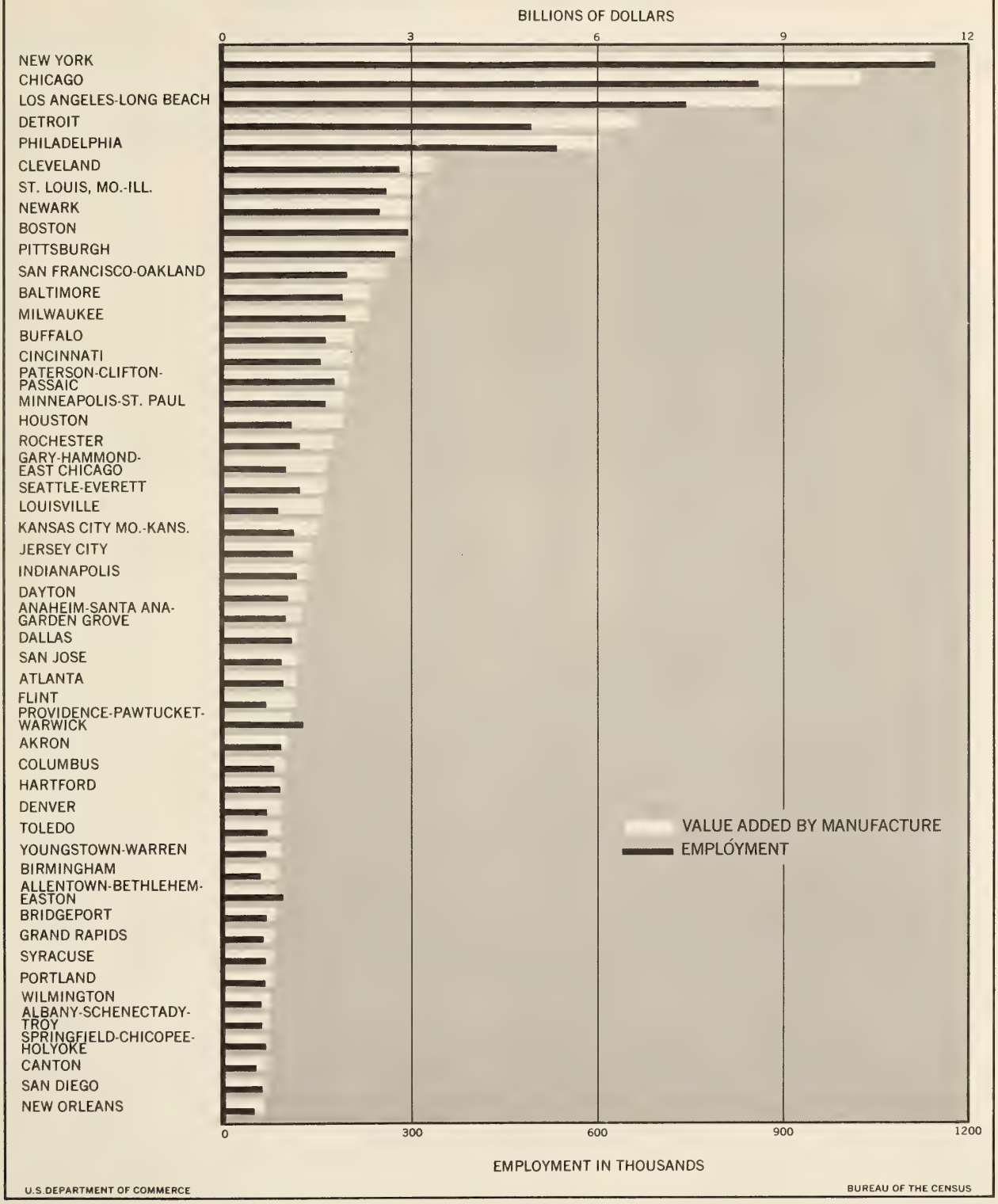

CAPITAL EXPENDITURES IN MANUFACTURING BY STATES: 1963
MILES
0 200 400
MILES
0 200 400
MILES
0 100 200
IN THOUSANDS OF DOLLARS
500,000 - 999,999
250,000 - 499,999
100,000 - 249,999
50,000 - 99,999
25,000 - 49,999
LESS THAN 25,000
U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

Chart 9

THE FIFTY LARGEST STANDARD METROPOLITAN STATISTICAL AREAS RANKED BY VALUE ADDED BY MANUFACTURE: 1963



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Operating Manufacturing Establishments: 1963 and Earlier Years

Year	Establishments		Proprietors and partners	All employees[1]		Production workers			Value added by manufacture, adjusted[3]	Capital expenditures, new[4]	Index of industrial production[5]
	Total	With 20 employees or more		Total[2]	Payroll	Total[2]	Man-hours	Wages			
	(number)	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)	($1,000)	1957-1959=100
1963	306,617	99,352	168,674	16,234,506	93,288,785	12,232,041	24,509,450	62,093,601	192,103,102	11,370,935	124
1962[6]	(NA)	(NA)	(NA)	16,154,702	89,819,178	12,126,537	24,269,511	59,134,113	179,071,122	10,436,210	118
1961[6]	(NA)	(NA)	(NA)	15,729,570	83,677,413	11,778,518	23,289,389	54,764,619	164,281,080	9,779,800	110
1960[6]	(NA)	(NA)	(NA)	16,149,888	83,672,541	12,209,514	24,174,380	55,555,452	163,998,531	10,097,837	109
1959[6]	(NA)	(NA)	(NA)	16,062,862	81,203,626	12,272,622	24,443,617	54,714,135	161,535,816	9,139,992	106
1958[7]	299,017	95,278	185,732	15,423,112	73,875,152	11,681,143	22,679,219	49,605,180	141,540,618	9,543,528	94
1957[6]	(NA)	(NA)	(NA)	16,621,140	76,314,635	12,838,889	25,208,002	52,569,022	147,838,425	12,143,965	101
1956[6]	(NA)	(NA)	(NA)	16,694,433	74,015,123	13,131,313	26,088,501	52,040,794	144,909,346	11,233,177	100
1955[6]	(NA)	(NA)	(NA)	16,335,526	69,096,569	12,954,392	25,898,324	49,217,925	135,022,505	8,233,138	97
1954	286,814	90,470	197,850	15,645,491	62,962,664	12,372,002	24,334,082	44,590,545	117,032,326	8,200,739	86
1953[6]	285,000	(NA)	(NA)	16,693,076	66,492,872	13,500,934	27,065,569	48,979,102	121,659,136	8,047,892	91
1952[6]	267,000	(NA)	(NA)	15,732,722	59,598,225	12,706,032	25,617,613	43,763,640	109,162,079	7,883,369	84
1951[6]	262,000	(NA)	(NA)	15,309,638	54,741,463	12,508,914	25,263,764	40,654,832	102,085,814	7,781,731	81
1950[6]	260,000	(NA)	(NA)	14,467,149	46,642,786	11,778,803	23,716,536	34,600,025	89,749,765	5,041,299	75
1949[6]	(NA)	(NA)	(NA)	13,566,949	41,482,008	11,016,301	21,769,728	30,253,971	75,366,527	5,066,941	65
1947	240,807	(NA)	188,948	14,293,963	39,695,558	11,917,884	24,316,465	30,243,971	74,290,475	5,998,099	66
1939[8]	173,802	(NA)	[9]123,655	[10]9,527,306	[10]12,706,102	7,808,205	(NA)	8,997,515	24,487,304	(NA)	38
1937	166,794	(NA)	99,268	9,786,402	12,829,749	8,569,231	(NA)	10,112,883	25,173,539	(NA)	40
1935	167,916	(NA)	81,521	8,262,295	9,564,754	7,203,794	(NA)	7,311,329	18,552,553	(NA)	31
1933	139,325	(NA)	72,267	[11]6,557,925	[11]6,237,800	5,787,611	(NA)	4,940,146	14,007,540	(NA)	24
1931	171,450	(NA)	(NA)	(NA)	(NA)	6,163,144	(NA)	6,688,541	18,600,532	(NA)	27
1929	206,663	(NA)	132,686	9,659,742	14,284,282	8,369,705	(NA)	10,884,919	30,591,435	(NA)	38
1927	187,629	(NA)	132,151	9,072,052	13,123,135	7,848,070	(NA)	10,099,465	26,325,394	(NA)	33
1925	183,877	(NA)	132,971	9,142,417	12,957,707	7,871,409	(NA)	9,979,649	25,667,624	(NA)	32
1923	192,096	(NA)	147,958	9,474,658	12,996,460	8,194,170	(NA)	10,148,624	24,569,487	(NA)	30
1921	192,059	(NA)	172,291	7,557,364	9,870,199	6,475,474	(NA)	7,451,299	17,252,775	(NA)	20
1919	270,231	(NA)	249,865	9,836,801	12,426,902	8,464,916	(NA)	9,664,009	23,841,624	(NA)	25
1914	268,436	(NA)	258,560	7,514,186	5,015,977	6,602,287	(NA)	3,782,322	9,385,622	(NA)	(NA)
1909	264,810	(NA)	272,421	7,012,066	4,105,470	6,261,736	(NA)	3,205,213	8,160,075	(NA)	(NA)
1904	213,444	(NA)	225,115	5,674,957	2,990,937	5,181,660	(NA)	2,440,851	6,019,171	(NA)	(NA)
1899	204,754	(NA)	(NA)	4,850,019	2,258,654	4,501,919	(NA)	1,892,574	4,646,981	(NA)	(NA)
1899[12]	509,490	(NA)	(NA)	5,478,301	2,595,566	5,097,562	(NA)	2,206,547	5,474,892	(NA)	(NA)
1889	353,864	(NA)	(NA)	4,586,494	2,209,058	4,129,355	(NA)	1,820,854	4,102,301	(NA)	(NA)
1879	253,852	(NA)	(NA)	(NA)	(NA)	2,732,595	(NA)	947,954	1,972,756	(NA)	(NA)
1869	252,148	(NA)	(NA)	(NA)	(NA)	2,053,996	(NA)	620,467	1,395,119	(NA)	(NA)
1859	140,433	(NA)	(NA)	(NA)	(NA)	1,311,246	(NA)	378,879	854,257	(NA)	(NA)
1849	123,025	(NA)	(NA)	(NA)	(NA)	957,059	(NA)	236,755	463,983	(NA)	(NA)

Note: See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1]The figures for 1939 to 1963 include data for employees at manufacturing establishments who were engaged in distribution and in construction work. The extent to which data for such employees were included in the figures for earlier years is not known. In addition to the employment and payroll for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.) which service the manufacturing establishment(s) of a company. These figures were collected by the Bureau of the Census for 1963, 1958, and 1954. The data for 1963 and 1958 are shown in table 2.

[2]The method of compiling these figures has varied, as follows: All employees: for 1955-1963, figures represent the average of the number of production workers for the payroll period ended nearest the 15th of March, May, August and November, plus all other employees for the payroll period ended nearest the 15th of March; for 1949-1954, they represent an average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949-1963, figures are based on employment for the payroll period ended nearest the 15th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

[3]For the period 1954 to 1963 value added by manufacture represents adjusted value added and for earlier years, unadjusted value added. Unadjusted value added is obtained by subtracting the cost of materials, supplies and containers, fuel, purchased electric energy, and contract work from the value of shipments for products manufactured plus receipts for services rendered. Adjusted value added also takes into account (a) value added by merchandising operations (that is, the difference between the sales value and cost of merchandise sold without further manufacture, processing, or assembly), plus (b) the net change in finished goods and work-in-process inventories between the beginning and end of the year. For 1849-1933, cost of contract work was not subtracted from value of shipments in calculating value added by manufacture.

[4]The figures for 1951 to 1963 include expenditures for plants under construction and not yet in operation. This information was not collected prior to 1951.

[5]Based on current Federal Reserve Board bulletins.

[6]These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

[7]The 1958 and subsequent years figures include establishments classified in industry 3273, Ready Mixed Concrete, and establishments classified in industry 3599, Miscellaneous Machinery, that were engaged exclusively or almost exclusively in machine shop repair work. The data for such establishments are excluded from the figures for the period 1939 to 1957, but are included for 1929 and earlier years. The 1954 to 1963 figures include data for establishments engaged in the processing and distribution of fluid milk, industry group 202, Dairies. These establishments were not included in the figures for earlier census years. In addition, beginning with 1954, the figures include data for Logging Camps and Contractors, industry 2411, which were not included within the scope of the 1947 census. There were also a number of changes in the definition of manufacturing industries during earlier census years that affect the comparability of the historical series. Among the more important of these were the following: Figures for 1935 and later years exclude data for railroad repair shops and manufactured gas which were included in 1899 to 1933 figures; the minimum size of establishment included for 1947 to 1963 was 1 employee; for 1921 to 1939, manufacturing establishments reporting value of shipments of $5,000 or more were within scope whereas for 1919 and earlier years the cutoff was $500. (These changes in procedure have not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

Footnotes for Table 1--General Summary--Continued

[8]The figures for 1939, but not for earlier years, have been revised on the basis of retabulation of the returns to exclude data for establishments classified as manufacturing in 1939 and prior years but classified as nonmanufacturing beginning with 1947. Value added by manufacture for 1939, prior to revision and on a basis comparable with 1937 and previous years, was $24.7 billion.

[9]Not revised to exclude data for establishments classified as manufacturing in 1939 and prior years but classified as nonmanufacturing beginning with 1947.

[10]The 1939 figures for "all employees" were revised on the basis of estimates rather than by retabulation of the 1939 reports. The estimates were made in the following manner: for number of employees, by multiplying the retabulated figure for number of production workers by the ratio of all employees to production workers computed from the unrevised 1939 statistics; for salaries and wages, by multiplying the retabulated wage figure by the ratio for salaries and wages also derived from the unrevised 1939 statistics.

[11]Not including data for salaried officers of corporations and their salaries and, therefore, not strictly comparable with figures for other years.

[12]These figures for 1899 and earlier years represent hand and neighborhood manufacturing operations.

TABLE 2. Manufacturing Employment: 1963 and 1958

Code	Major industry group	Year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries	
			Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)
	All industries, total	1963	16,960,983	99,904,279	16,234,506	93,288,785	726,477	6,615,494
		1958	16,025,219	78,348,893	15,423,112	73,875,152	602,107	4,473,741
20	Food and kindred products	1963	1,714,607	9,233,931	1,643,111	8,637,152	71,496	596,779
		1958	1,781,469	8,064,425	1,718,132	7,622,329	63,337	442,096
21	Tobacco manufactures	1963	83,841	381,306	77,330	330,498	6,511	50,808
		1958	91,988	341,714	84,467	294,650	7,521	47,064
22	Textile mill products	1963	883,170	3,537,958	863,246	3,385,031	19,924	152,927
		1958	918,612	3,043,136	903,245	2,942,907	15,367	100,229
23	Apparel and related products	1963	1,290,536	4,508,783	1,279,534	4,423,033	11,002	85,750
		1958	1,188,530	3,637,728	1,181,011	3,586,570	7,519	51,158
24	Lumber and wood products	1963	568,714	2,385,442	563,135	2,338,733	5,579	46,709
		1958	591,049	2,042,249	585,372	2,007,451	5,677	34,798
25	Furniture and fixtures	1963	381,221	1,767,114	376,548	1,726,707	4,673	40,407
		1958	357,170	1,435,969	354,165	1,413,687	3,005	22,282
26	Paper and allied products	1963	613,829	3,746,389	588,014	3,508,185	25,815	238,204
		1958[1]	573,592	2,920,858	551,338	2,759,387	22,254	161,471
27	Printing and publishing	1963	925,093	5,611,539	913,243	5,514,816	11,850	96,723
		1958	871,725	4,533,889	864,607	4,489,245	7,118	44,644
28	Chemicals and allied products	1963	853,121	6,013,617	737,414	4,969,843	115,707	1,043,774
		1958	783,870	4,604,479	698,312	3,940,461	85,558	664,018
29	Petroleum and coal products	1963	219,903	1,762,860	153,486	1,133,765	66,417	629,095
		1958[1]	247,440	1,655,855	179,166	1,116,673	68,274	539,182
30	Rubber and plastics products, n.e.c.	1963	426,716	2,470,772	414,959	2,364,033	11,757	106,739
		1958	356,109	1,785,542	347,842	1,723,295	8,267	62,247
31	Leather and leather products	1963	335,071	1,278,064	327,489	1,227,824	7,582	50,240
		1958	358,484	1,192,168	349,165	1,145,965	9,319	46,203
32	Stone, clay and glass products	1963	602,764	3,462,465	573,859	3,212,495	28,905	249,970
		1958	574,790	2,754,013	552,522	2,586,373	22,268	167,640
33	Primary metal industries	1963	1,166,953	8,148,976	1,126,536	7,734,129	40,417	414,847
		1958	1,129,512	6,600,300	1,091,927	6,280,469	37,585	319,831
34	Fabricated metal products	1963	1,110,649	6,643,976	1,082,102	6,387,508	28,547	256,468
		1958	1,090,280	5,634,162	1,060,506	5,425,260	29,774	208,902
35	Machinery, except electrical	1963	1,520,574	10,146,582	1,459,377	9,570,984	61,197	575,598
		1958	1,385,781	7,577,634	1,350,257	7,314,261	35,524	263,373
36	Electrical machinery	1963	1,612,178	10,207,142	1,511,819	9,284,279	100,359	922,863
		1958	1,218,645	6,323,389	1,140,807	5,755,220	77,838	568,169
37	Transportation equipment	1963	1,689,737	12,735,609	1,601,158	11,858,240	88,579	877,369
		1958	1,641,860	9,793,175	1,562,429	9,185,696	79,431	607,479
38	Instruments and related products	1963	316,443	2,010,423	305,452	1,912,472	10,991	97,951
		1958	293,787	1,564,037	286,351	1,509,525	7,436	54,512
39	Miscellaneous manufacturing	1963	397,638	1,869,648	390,760	1,812,104	6,878	57,544
		1958	370,920	1,515,697	364,613	1,467,379	6,307	48,318
19	Ordnance and accessories	1963	248,225	1,981,683	245,934	1,956,954	2,291	24,729
		1958	198,598	1,322,867	195,870	1,302,742	2,728	20,125

Note: See appendix A for explanation of terms used.

n.e.c. Not elsewhere classified.

[1]The 1963 and most of the 1958 figures represent data for establishments located in the conterminous United States, Alaska, and Hawaii. However, when the 1958 figures were previously published they did not include data for Alaska and Hawaii since these areas did not achieve statehood until 1959. The addition of the 1958 Alaska and Hawaii figures to the previously published figures for major industry groups 26 and 29 would have resulted in a disclosure. Therefore the 1958 Alaska and Hawaii data are excluded from these major groups but are included at the "all industries" level.

TABLE 3. General Statistics for Establishments, by Industry

Code	Industry group and industry	1963									
			Establishments			All employees		Production workers			
		Companies	Total	With 20 employees or more	Proprietors and partners	Total	Payroll	Total	Man-hours	Wages	Value added by manufacture, adjusted
		(number)	(number)	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)
	All manufacturing establishments, including central administrative offices	(NA)	311,921	102,272	168,674	16,960,983	99,904,279	12,232,041	24,509,450	62,093,601	192,103,102
	Operating manufacturing establishments	(NA)	306,617	99,352	168,674	16,234,506	93,288,785	12,232,041	24,509,450	62,093,601	192,103,102
20	Food and kindred products	(NA)	37,521	14,113	20,781	1,643,111	8,637,152	1,098,116	2,228,013	5,159,376	21,825,516
21	Tobacco manufactures	(NA)	394	231	149	77,330	330,498	68,579	132,035	271,496	1,680,594
22	Textile mill products	(NA)	7,104	4,368	2,865	863,246	3,385,031	775,330	1,568,126	2,768,414	6,122,982
23	Apparel and related products	(NA)	28,457	13,011	17,830	1,279,534	4,423,033	1,132,859	2,052,569	3,482,286	7,861,011
24	Lumber and wood products	(NA)	36,150	5,765	32,567	563,135	2,338,733	497,409	978,665	1,943,287	4,020,600
25	Furniture and fixtures	(NA)	10,478	3,313	5,894	376,548	1,726,707	314,762	639,698	1,289,989	3,068,287
26	Paper and allied products[3]	(NA)	5,713	3,552	1,113	588,014	3,508,185	467,795	988,582	2,551,148	7,395,677
27	Printing and publishing	(NA)	38,090	7,215	23,567	913,243	5,514,816	559,843	1,083,179	3,190,988	10,476,433
28	Chemicals and allied products	(NA)	11,996	3,985	2,856	737,414	4,969,843	474,141	963,361	2,779,938	17,586,138
29	Petroleum and coal products[3]	(NA)	1,839	689	318	153,486	1,133,765	109,448	216,679	745,123	3,713,231
30	Rubber and plastics products, n.e.c	(NA)	5,728	2,449	1,651	414,959	2,364,033	328,785	658,464	1,672,376	4,653,953
31	Leather and leather products	(NA)	4,047	2,073	2,345	327,489	1,227,824	292,339	543,094	982,096	2,078,572
32	Stone, clay and glass products	(NA)	15,838	4,655	7,699	573,859	3,212,495	455,818	928,948	2,350,223	7,043,987
33	Primary metal industries	(NA)	6,513	3,583	1,916	1,126,536	7,734,129	922,160	1,838,970	5,933,628	15,261,089
34	Fabricated metal products	(NA)	26,975	9,210	13,700	1,082,102	6,387,508	843,795	1,721,034	4,483,688	11,791,081
35	Machinery, except electrical	(NA)	33,703	8,426	17,956	1,459,377	9,570,984	1,045,075	2,151,057	6,209,341	17,310,599
36	Electrical machinery	(NA)	9,948	4,722	2,491	1,511,819	9,284,279	1,049,357	2,090,531	5,405,786	17,010,665
37	Transportation equipment	(NA)	7,196	2,868	3,169	1,601,158	11,858,240	1,150,082	2,450,150	7,731,192	22,765,674
38	Instruments and related products	(NA)	3,949	1,343	1,410	305,452	1,912,472	208,448	416,555	1,100,718	3,992,131
39	Miscellaneous manufacturing	(NA)	14,723	3,618	8,397	390,760	1,812,104	315,017	613,227	1,253,518	3,562,361
19	Ordnance and accessories[4]	(NA)	258	163	41	245,934	1,956,954	122,891	246,512	788,990	2,882,521
--	Administrative and auxiliary[5]	(NA)	5,304	2,920	-	726,477	6,615,494	-	-	-	-
20	Food and kindred products	(NA)	37,521	14,113	20,781	1,643,111	8,637,152	1,098,116	2,228,013	5,159,376	21,825,516
201	Meat products	(NA)	5,300	2,018	3,525	299,576	1,640,752	238,524	485,425	1,212,177	2,882,580
2011	Meat slaughtering plants	2,833	2,992	976	2,256	180,873	1,146,947	138,356	289,294	847,025	1,908,309
2013	Meat processing plants	1,273	1,341	483	776	48,599	289,405	36,351	75,964	195,232	563,362
2015	Poultry dressing plants	842	967	559	493	70,104	204,400	63,817	120,167	169,920	410,909
202	Dairies	(NA)	7,885	2,885	4,028	256,828	1,394,222	117,195	250,258	584,535	3,184,867
2021	Creamery butter	725	766	178	246	11,992	52,870	8,607	19,471	36,959	132,665
2022	Natural and process cheese	982	1,138	206	636	17,956	78,684	14,893	31,082	61,836	179,750
2023	Condensed and evaporated milk	167	281	166	37	12,255	66,990	9,533	20,068	50,413	236,250
2024	Ice cream and frozen desserts	901	1,081	387	522	29,575	162,799	15,585	32,495	76,557	433,006
2026	Fluid milk	4,030	4,619	1,948	2,587	185,050	1,032,879	68,577	147,142	358,770	2,203,196
203	Canned and frozen foods	(NA)	3,969	1,974	1,660	244,824	959,688	212,474	398,436	736,997	2,778,810
2031	Canned and cured seafoods	345	405	196	171	17,271	66,231	15,453	25,522	52,609	[6]174,634
2032	Canned specialties	154	173	77	82	25,156	127,168	20,378	40,691	92,340	[6]540,835
2033	Canned fruits and vegetables	1,135	1,430	836	522	102,388	382,057	90,749	168,188	303,485	[6]1,029,467
2034	Dehydrated foods products	126	176	80	74	9,152	41,650	7,843	15,333	31,243	115,795
2035	Pickles, sauces, salad dressings	541	588	184	310	19,041	83,713	15,426	29,891	58,295	[6]249,397
2036	Fresh or frozen packaged fish	528	547	255	328	20,066	56,471	17,936	32,147	44,619	[6]118,451
2037	Frozen fruits and vegetables	566	650	346	173	51,750	202,398	44,689	86,664	154,406	[6]550,231
204	Grain mills	(NA)	3,555	1,088	1,654	113,103	646,878	78,605	171,840	418,994	2,271,054
2041	Flour mills	510	618	218	384	22,405	137,663	16,435	38,422	94,942	373,090
2042	Prepared animal feeds	2,150	2,590	711	1,165	54,649	278,729	34,564	75,669	159,079	983,691
2043	Cereal preparations	35	48	30	19	11,358	75,098	9,416	18,829	59,575	365,022
2044	Rice milling	62	74	49	16	4,256	20,255	3,243	7,315	12,704	80,507
2045	Blended and prepared flour	140	165	60	58	7,199	45,391	5,135	10,703	27,394	177,826
2046	Wet corn milling	49	60	20	12	13,236	89,742	9,812	20,902	65,300	290,918
205	Bakery products	(NA)	5,366	2,112	3,714	280,144	1,513,350	164,014	335,593	796,621	3,030,822
2051	Bread and related products	4,339	5,010	1,904	3,583	236,984	1,300,329	129,909	267,615	645,680	2,403,782
2052	Biscuit, crackers, and cookies	286	356	208	131	43,160	213,021	34,105	67,978	150,941	627,040
206	Sugar	(NA)	164	160	21	32,003	189,229	25,895	56,684	145,756	590,802
2061	Raw cane sugar	50	74	73	18	8,263	38,796	6,308	14,634	27,929	135,686
2062	Cane sugar refining	16	25	25	2	12,443	90,792	9,499	20,683	66,948	254,418
2063	Beet sugar	11	65	62	1	11,297	59,641	10,088	21,367	50,879	200,698

See footnotes at end of table.

Groups and Industries: 1963 and 1958

1963--Continued								1958					Code
Value of shipments	Capital expenditures, new[1]			Inventories end of--		Special-ization ratio	Cover-age ratio	All employees		Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new[1]	
	Total	Structures and additions to plant	Machinery and equipment	1963	1962			Total	Payroll				
($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	(percent)	(percent)	(number)	($1,000)	($1,000)	($1,000)	($1,000)	
[2]420,528,098	11,370,935	2,965,545	8,405,408	59,912,937	58,066,827	(NA)	(NA)	16,025,219	78,348,893	141,540,618	[2]326,722,817	9,543,528	
420,528,098	11,370,935	2,965,545	8,405,408	59,912,937	58,066,827	(NA)	(NA)	15,423,112	73,875,152	141,540,618	[2]326,722,817	9,543,528	
[2]68,466,487	1,249,245	336,334	912,911	6,760,747	6,510,720	(NA)	(NA)	1,718,132	7,622,329	17,700,906	[2]59,749,032	1,018,303	20
[2]4,519,954	53,843	12,100	41,743	2,406,503	2,500.521	(NA)	(NA)	84,467	294,650	1,413,460	[2]3,867,515	48,391	21
[2]15,740,545	382,414	67,894	314,520	2,567,434	2,530,414	(NA)	(NA)	903,245	2,942,907	4,869,543	[2]12,415,807	212,393	22
[2]17,096,862	128,582	31,993	96,589	2,164,991	2,051,474	(NA)	(NA)	1,181,011	3,586,570	6,001,148	[2]13,573,569	89,713	23
[2]9,200,039	394,729	129,710	265,019	1,352,730	1,335,911	(NA)	(NA)	585,372	2,007,451	3,212,621	[2]7,595,100	286,768	24
[2]5,884,064	110,180	40,582	69,598	827,228	791,583	(NA)	(NA)	354,165	1,413,687	2,395,986	[2]4,765,877	82,248	25
[2]16,357,102	708,532	118,838	589,694	1,759,327	1,698,554	(NA)	(NA)	551,338	2,759,387	5,668,720	[2]12,897,517	634,446	26
[2]16,165,744	463,904	111,020	352,884	1,315,098	1,199,039	(NA)	(NA)	864,607	4,489,245	7,973,195	[2]12,589,037	421,547	27
[2]31,772,722	1,545,689	354,876	1,190,816	3,825,760	3,702,178	(NA)	(NA)	698,312	3,940,461	12,308,024	[2]23,129,493	1,243,939	28
[2]17,994,742	413,681	283,759	129,902	1,818,020	1,829,302	(NA)	(NA)	179,166	1,116,673	2,518,424	[2]15,623,067	681,805	29
[2]9,116,230	343,466	58,564	284,902	1,189,924	1,159,641	(NA)	(NA)	347,842	1,723,295	3,276,612	[2]6,599,638	197,138	30
[2]4,209,614	34,566	6,257	28,309	551,861	566,439	(NA)	(NA)	349,165	1,145,965	1,898,007	[2]3,896,165	31,825	31
[2]12,289,091	607,581	156,428	451,153	1,522,406	1,471,029	(NA)	(NA)	552,522	2,586,373	5,533,392	[2]9,726,543	488,628	32
[2]35,621,458	1,446,303	386,988	1,059,315	6,057,254	6,014,043	(NA)	(NA)	1,091,927	6,280,469	11,542,204	[2]27,323,600	1,543,695	33
[2]23,065,207	570,077	137,737	432,340	3,954,075	3,783,909	(NA)	(NA)	1,060,506	5,425,260	9,439,843	[2]19,230,112	463,594	34
[2]30,363,095	783,076	170,968	612,118	6,803,006	6,554,398	(NA)	(NA)	1,350,257	7,314,261	12,414,069	[2]22,797,650	699,636	35
[2]29,840,182	701,947	176,031	525,916	5,239,708	5,148,799	(NA)	(NA)	1,140,807	5,755,220	10,624,264	[2]19,547,559	468,039	36
[2]55,428,194	1,022,004	273,140	748,864	7,048,765	6,553,226	(NA)	(NA)	1,562,429	9,185,696	15,315,289	[2]38,289,301	629,621	37
[2]6,117,889	191,865	52,324	139,541	1,177,942	1,121,632	(NA)	(NA)	286,351	1,509,525	2,781,017	[2]4,418,690	114,608	38
[2]6,494,830	131,033	34,101	96,937	1,115,703	1,076,627	(NA)	(NA)	364,613	1,467,379	2,678,314	[2]4,965,475	110,585	39
[2]4,784,047	88,218	25,881	62,337	454,455	467,388	(NA)	(NA)	195,870	1,302,742	1,956,378	[2]3,686,316	74,986	19
-	-	-	-	-	-	(X)	(X)	602,107	4,473,741	-	-	-	--
[2]68,466,487	1,249,245	336,334	912,911	6,760,749	6,510,720	(NA)	(NA)	1,718,132	7,622,329	17,700,906	[2]59,749,032	1,018,303	20
[2]16,806,600	135,966	45,897	90,069	597,951	579,413	(NA)	(NA)	312,086	1,466,677	2,502,467	[2]15,927,441	111,176	201
12,435,454	80,235	28,265	51,970	408,068	406,687	98	86	201,019	1,068,766	1,749,291	11,972,464	65,860	2011
2,130,275	21,425	6,218	15,207	96,578	91,897	94	38	48,586	236,915	442,058	2,066,257	17,237	2013
2,240,871	34,306	11,414	22,892	93,305	80,829	98	98	62,389	160,813	310,572	1,888,166	28,079	2015
[2]11,199,909	195,971	51,420	144,551	388,710	386,453	(NA)	(NA)	294,805	1,350,915	2,876,113	[2]10,081,555	205,430	202
988,777	9,930	2,261	7,669	28,188	29,899	69	77	17,295	62,895	147,207	1,023,460	17,094	2021
1,170,836	15,866	5,103	10,763	106,274	98,922	93	96	17,032	62,989	133,021	873,614	13,739	2022
937,925	12,113	3,406	8,707	46,760	50,133	80	66	13,445	61,443	202,709	820,649	12,746	2023
1,076,479	31,915	8,059	23,856	60,715	59,314	93	74	34,795	153,950	394,686	951,499	26,150	2024
7,025,892	126,147	32,591	93,556	146,773	148,185	90	95	212,238	1,009,638	1,998,490	6,412,333	135,701	2026
[2]7,300,305	176,282	62,849	113,433	1,815,965	1,859,746	(NA)	(NA)	234,093	775,187	1,969,487	[2]5,705,498	106,290	203
[6]452,454	6,296	2,389	3,907	88,679	95,578	92	95	17,146	58,057	[6]130,648	[6]388,642	3,546	2031
[6]1,169,299	25,582	12,800	12,782	223,419	233,239	80	91	24,186	109,479	[6]340,847	[6]846,881	16,492	2032
[6]2,742,787	66,574	18,210	48,364	953,957	986,985	89	91	108,414	340,299	[6]849,879	[6]2,333,885	43,713	2033
318,660	16,199	7,180	9,019	89,805	87,939	96	89	7,599	28,338	75,529	273,286	6,686	2034
[6]677,268	10,967	2,481	8,486	110,417	107,527	79	82	19,500	70,494	[6]164,624	[6]525,309	11,197	2035
[6]391,174	6,095	1,985	4,110	53,917	49,664	95	94	17,613	41,432	[6]83,504	[6]310,095	3,673	2036
[6]1,548,663	44,569	17,804	26,765	295,771	298,814	89	89	39,528	126,804	[6]323,789	[6]1,025,877	20,952	2037
[2]8,161,196	127,722	32,605	95,117	722,141	702,211	(NA)	(NA)	118,984	575,775	1,855,613	[2]6,889,207	122,929	204
2,176,529	23,485	4,808	18,677	232,221	255,225	94	78	28,215	140,121	393,053	2,086,706	22,109	2041
3,880,122	53,394	17,744	35,650	231,410	223,149	96	93	57,313	252,346	798,892	3,238,414	55,042	2042
625,058	15,273	3,657	11,616	49,874	44,569	80	86	10,927	61,902	243,088	444,132	17,674	2043
423,022	3,299	1,183	2,116	109,580	86,920	100	100	3,843	14,286	53,152	312,061	1,442	2044
434,023	6,142	770	5,372	33,516	34,023	78	62	4,894	28,353	118,073	279,364	8,606	2045
622,442	26,129	4,443	21,686	65,540	58,325	83	93	13,792	78,767	249,435	528,530	18,056	2046
[2]5,656,144	121,709	23,436	98,273	191,685	184,875	(NA)	(NA)	302,307	1,337,891	2,642,136	[2]5,081,157	119,606	205
4,505,995	95,280	15,673	79,607	130,111	125,502	98	99	257,846	1,158,062	2,118,818	4,098,612	104,085	2051
1,150,149	26,429	7,763	18,666	61,574	59,373	97	95	44,461	179,829	523,318	982,545	15,521	2052
[2]2,214,012	73,611	12,317	61,294	403,066	302,560	(NA)	(NA)	32,864	161,841	383,052	[2]1,567,516	42,836	206
378,710	19,289	2,701	16,588	24,294	14,154	99	100	7,327	28,662	67,835	178,016	8,037	2061
1,271,229	16,209	1,968	14,241	214,599	134,890	100	100	15,213	83,962	184,824	997,288	26,829	2062
564,073	38,113	7,648	30,465	164,173	153,516	100	100	10,324	49,217	130,393	392,212	7,970	2063

TABLE 3. General Statistics for Establishments, by Industry

Code	Industry group and industry	1963									
		Companies	Establishments		Proprietors and partners	All employees		Production workers			Value added by manufacture, adjusted
			Total	With 20 employees or more		Total	Payroll	Total	Man-hours	Wages	
		(number)	(number)	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)
20	Food and kindred products--Continued										
207	Candy and related products	(NA)	1,263	451	1,552	77,944	349,982	63,568	123,788	246,743	956,037
2071	Confectionery products	1,142	1,211	411	1,544	63,643	269,680	52,724	102,402	193,028	635,393
2072	Chocolate and cocoa products	24	28	23	3	8,743	49,305	6,952	13,964	35,936	184,796
2073	Chewing gum	20	24	17	5	5,558	30,997	3,892	7,422	17,779	135,848
208	Beverages	(NA)	5,018	1,997	2,149	204,621	1,225,494	108,551	218,517	603,712	3,724,834
2082	Malt liquors	171	222	180	21	62,643	470,823	42,679	81,901	302,270	1,286,036
2083	Malt	29	42	31	6	1,925	15,084	1,456	2,983	10,839	43,979
2084	Wines and brandy	194	222	70	97	6,111	35,051	4,176	8,403	20,523	137,281
2085	Distilled liquor, except brandy	70	107	89	9	18,009	110,217	14,343	28,138	80,244	[6]623,736
2086	Bottled and canned soft drinks	3,569	3,905	1,530	1,832	106,850	537,743	40,911	86,857	164,715	1,233,629
2087	Flavorings	492	520	97	184	9,083	56,576	4,986	10,235	25,121	400,173
209	Miscellaneous foods and kindred products[3]	(NA)	5,001	1,428	2,478	134,068	717,557	89,290	187,472	413,841	2,405,710
2091	Cottonseed oil mills	115	188	153	21	8,372	38,173	6,569	16,556	26,014	100,815
2092	Soybean oil mills	68	102	71	24	6,478	39,893	4,568	10,057	25,715	152,143
2093	Vegetable oil mills, n.e.c	39	47	22	8	1,952	11,501	1,507	3,189	8,094	42,692
2094	Animal and marine fats and oils	65	615	211	241	14,276	78,305	10,260	22,714	51,254	193,326
2095	Roasted coffee	261	324	133	86	17,175	111,429	10,112	20,499	55,596	616,407
2096	Shortening and cooking oils	65	115	86	13	13,511	88,606	8,880	19,001	54,767	264,501
2097	Manufactured ice	862	1,199	135	653	10,757	42,872	6,714	14,056	25,905	90,204
2098	Macaroni and spaghetti	207	221	70	144	7,270	35,495	5,095	10,368	21,176	96,012
2099	Food preparations, n.e.c.[3]	1,977	2,190	547	1,288	54,277	271,283	35,585	71,032	145,320	849,610
21	Tobacco manufactures	(NA)	394	231	149	77,330	330,498	68,579	132,035	271,496	1,680,594
2111	Cigarettes	7	14	14	-	35,568	183,046	31,966	62,986	158,847	[6]1,310,325
2121	Cigars	164	193	82	125	20,731	68,108	18,965	35,044	57,790	[6]192,998
2131	Chewing and smoking tobacco	45	51	25	15	4,058	18,207	3,101	5,670	11,603	[6]73,975
2141	Tobacco stemming and redrying	59	136	110	9	16,973	61,137	14,547	28,335	43,256	[6]103,296
22	Textile mill products	(NA)	7,104	4,368	2,865	863,246	3,385,031	775,330	1,568,126	2,768,414	6,122,982
2211	Weaving mills, cotton	229	407	350	40	208,993	771,573	195,530	403,379	688,374	1,256,753
2221	Weaving mills, synthetics	277	355	300	55	88,157	366,045	79,750	171,378	306,464	661,535
2231	Weaving, finishing mills, wool	304	361	249	78	47,429	202,892	41,627	85,034	160,188	386,622
2241	Narrow fabric mills	350	384	215	100	23,154	91,869	20,647	40,614	72,956	172,493
225	Knitting mills	(NA)	2,848	1,664	1,892	220,486	787,498	198,032	373,341	628,819	1,396,022
2251	Women's hosiery, except socks	363	411	268	271	51,527	170,875	47,074	87,768	144,129	296,346
2252	Hosiery, n.e.c	504	528	338	511	43,340	124,114	40,117	71,349	104,550	192,165
2253	Knit outerwear mills	1,175	1,185	666	788	68,570	266,650	60,684	113,602	205,833	463,585
2254	Knit underwear mills	104	118	104	30	28,364	95,869	25,578	48,103	76,076	170,709
2256	Knit fabric mills	487	518	243	206	25,046	117,532	21,364	46,465	88,296	252,908
2259	Knitting mills, n.e.c	86	88	45	88	3,639	12,458	3,215	6,054	9,935	20,309
226	Textile finishing, except wool	(NA)	621	363	126	70,819	336,906	59,687	127,094	258,194	582,268
2261	Finishing plants, cotton	220	238	140	50	42,055	190,532	35,537	74,856	146,817	332,290
2262	Finishing plants, synthetic	193	205	138	24	19,528	105,975	16,222	36,524	81,391	176,819
2269	Finishing plants, n.e.c	174	178	85	52	9,236	40,399	7,928	15,714	29,986	73.159
227	Floor covering mills	(NA)	349	187	141	35,656	152,366	30,346	63,870	115,169	394,942
2271	Woven carpets and rugs	56	64	31	27	13,357	63,018	11,013	23,443	47,042	120,004
2272	Tufted carpets and rugs	167	181	121	48	19,854	80,470	17,188	36,359	61,312	259,343
2279	Carpets and rugs, n.e.c	103	104	35	66	2,445	8,878	2,145	4,068	6,815	15,595
228	Yarn and thread mills	(NA)	712	551	120	102,647	359,121	94,812	191,439	306,001	652,365
2281	Yarn mills, except wool	234	317	284	24	61,647	208,091	58,177	117,894	184,789	363,177
2282	Throwing and winding mills	165	180	110	59	13,559	47,066	12,104	24,080	37,276	93,649
2283	Wool yarn mills	136	144	121	22	17,385	66,526	15,769	32,000	55,015	119,718
2284	Thread mills	59	71	36	15	10,056	37,438	8,762	17,465	28,921	75,821
229	Miscellaneous textile goods	(NA)	1,067	489	313	65,905	316,761	54,899	111,977	232,249	619,982
2291	Felt goods, n.e.c	28	36	30	3	4,952	27,011	4,042	8,658	20,016	58,625
2292	Lace goods	145	152	51	53	4,912	19,749	4,265	8,094	15,996	31,472
2293	Padding and upholstery filling	168	183	73	55	6,932	33,651	5,718	12,036	25,156	65,588
2294	Processed textile waste	137	141	59	45	4,240	17,845	3,589	7,619	12,869	30,961
2295	Coated fabric, not rubberized	149	162	87	25	13,705	89,235	10,240	22,067	58,844	179,307
2296	Tire cord and fabric	12	20	19	3	9,163	35,139	8,347	16,388	30,041	72,267

See footnotes at end of table.

Groups and Industries: 1963 and 1958—Continued

1963--Continued								1958					Code
Value of shipments	Capital expenditures, new[1]			Inventories end of--		Special-ization ratio	Cover-age ratio	All employees		Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new[1]	
	Total	Structures and additions to plant	Machinery and equipment	1963	1962			Total	Payroll				
($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	(percent)	(percent)	(number)	($1,000)	($1,000)	($1,000)	($1,000)	
													20
[2]2,158,441	39,346	10,206	29,140	355,131	351,301	(NA)	(NA)	80,351	300,679	752,419	[2]1,861,487	32,381	207
1,454,512	28,094	7,479	20,615	191,504	184,839	95	95	66,504	236,982	512,532	1,229,277	24,872	2071
479,085	8,371	2,458	5,913	118,391	122,318	99	82	8,271	38,427	135,098	447,156	4,129	2072
224,844	2,881	269	2,612	45,236	44,144	88	96	5,576	25,270	104,789	185,054	3,380	2073
[2]6,897,950	225,084	51,343	173,741	1,263,325	1,217,114	(NA)	(NA)	206,985	1,044,481	2,856,112	[2]5,418,581	163,383	208
2,315,068	86,217	20,095	66,122	153,310	149,406	100	100	71,723	443,337	1,116,703	1,982,664	72,895	2082
183,515	3,002	678	2,324	78,774	78,877	100	95	2,404	16,338	55,087	195,327	3,131	2083
[2]368,281	7,303	1,543	5,760	119,955	121,080	98	99	5,941	29,029	114,242	[2]263,963	7,921	2084
[6]1,090,462	15,480	4,104	11,376	682,046	673,363	98	99	20,528	102,619	[6]458,151	[6]941,312	9,908	2085
2,210,920	100,771	20,328	80,443	125,028	115,313	98	95	97,082	405,626	862,487	1,558,263	64,153	2086
729,704	12,311	4,595	7,716	104,212	79,075	90	79	9,307	47,532	249,442	477,052	5,375	2087
[2]8,071,930	153,554	46,261	107,293	1,022,773	927,047	(NA)	(NA)	135,140	607,410	1,859,053	[2]7,206,405	114,272	209
555,188	12,475	2,314	10,161	153,027	129,836	89	91	8,355	31,223	63,587	420,649	6,605	2091
1,473,385	10,238	1,763	8,475	278,955	223,236	89	95	8,095	41,909	139,612	1,080,798	14,668	2092
234,168	1,561	286	1,275	52,244	50,593	84	83	2,252	12,525	42,066	314,695	2,032	2093
473,993	13,659	2,398	11,261	29,900	29,880	94	66	14,575	67,869	151,595	389,298	12,745	2094
1,868,058	23,459	6,218	17,241	151,086	139,638	90	99	18,823	96,564	461,295	2,038,920	23,070	2095
1,324,357	19,490	3,919	15,571	165,949	161,894	88	89	12,489	70,993	221,519	1,239,129	12,389	2096
122,550	5,741	2,603	3,138	2,718	2,776	99	100	14,557	52,498	107,527	149,552	6,368	2097
222,947	4,786	423	4,363	14,815	15,792	96	94	6,825	27,910	67,130	180,190	5,274	2098
1,797,284	62,145	26,337	35,808	174,079	173,402	91	78	49,169	205,919	604,722	1,393,174	31,121	2099
[2]4,519,954	53,843	12,100	41,743	2,406,503	2,500,521	(NA)	(NA)	84,467	294,650	1,413,460	[2]3,867,515	48,391	21
[6]2,655,346	29,651	3,215	26,436	1,226,519	1,267,241	97	100	33,832	142,413	[6]1,058,554	[6]2,159,987	20,490	2111
[6]358,463	4,246	1,747	2,499	61,783	61,441	100	100	29,350	81,882	[6]183,140	[6]355,048	7,050	2121
[6]139,543	927	225	702	41,491	37,885	97	61	6,348	23,693	[6]86,188	[6]175,770	1,079	2131
[6]1,366,602	19,019	6,913	12,106	1,076,710	1,133,954	100	100	14,937	46,662	[6]85,578	[6]1,176,710	19,772	2141
15,740,545	382,414	67,894	314,520	2,567,434	2,530,414	(NA)	(NA)	903,245	2,942,907	4,869,543	[2]12,415,807	212,393	22
3,104,053	113,366	22,230	91,136	625,846	677,316	92	80	243,419	724,481	1,078,592	2,748,584	48,441	2211
1,722,356	35,798	4,315	31,483	303,248	292,874	86	82	81,688	276,655	468,583	1,225,509	15,043	2221
1,010,692	15,539	2,947	12,592	187,457	179,667	86	96	55,952	206,094	336,618	929,040	9,702	2231
349,071	6,907	1,571	5,336	55,753	54,863	91	97	24,587	85,923	142,638	301,482	6,307	2241
[2]3,326,076	63,168	10,794	52,374	505,674	478,904	(NA)	(NA)	214,549	653,408	1,111,264	[2]2,588,539	44,215	225
[2]606,560	16,187	2,235	13,952	107,236	102,410	96	94	103,170	281,102	463,821	[2]946,868	19,757	2251
451,098	6,203	766	5,437	75,426	75,390	91	96						2252
1,045,470	17,277	3,241	14,036	135,470	129,635	92	97	60,586	203,998	[6]339,914	[6]813,577	11,155	2253
364,834	4,772	1,132	3,640	84,345	76,121	89	91	29,207	84,818	[6]145,592	[6]310,817	5,916	2254
817,383	18,409	3,409	15,000	96,942	88,764	95	93	18,356	73,871	147,394	487,185	7,132	2256
40,731	320	11	309	6,255	6,584	93	86	3,230	9,619	[6]14,543	[6]30,092	255	2259
[2]1,400,367	47,815	8,063	39,752	158,551	153,148	(NA)	(NA)	73,205	292,977	455,945	[2]1,054,838	21,396	226
869,746	29,273	4,075	25,198	108,403	107,794	81	60	49,212	189,866	289,115	686,237	15,672	2261
323,701	13,890	2,928	10,962	30,988	26,083	91	46	16,185	74,297	114,825	210,568	3,607	2262
206,920	4,652	1,060	3,592	19,160	19,271	89	64	7,808	28,814	52,005	158,033	2,117	2269
[2]1,143,862	16,125	3,388	12,737	204,991	193,129	(NA)	(NA)	33,668	123,269	260,466	[2]707,708	14,527	227
312,473	4,151	533	3,618	84,831	83,156	77	92	18,151	74,395	128,444	335,536	5,854	2271
801,804	11,512	2,796	8,716	116,256	106,090	96	96	11,528	36,313	108,846	317,639	8,007	2272
29,585	462	59	403	3,904	3,883	89	46	3,989	12,561	23,176	54,533	666	2279
[2]2,002,552	51,504	8,122	43,382	277,962	253,511	(NA)	(NA)	107,204	308,042	515,888	[2]1,481,779	25,639	228
1,067,043	34,706	4,454	30,252	137,132	130,660	96	83	67,836	179,782	292,219	855,363	15,507	2281
319,252	6,231	1,498	4,733	35,149	28,596	95	88	11,862	37,580	67,648	174,646	3,164	2282
422,189	7,256	1,283	5,973	69,468	59,495	85	82	15,977	54,202	91,212	273,584	5,149	2283
194,068	3,311	887	2,424	36,213	34,760	93	90	11,529	36,478	64,809	178,186	1,819	2284
[2]1,681,516	32,192	6,464	25,728	247,952	247,002	(NA)	(NA)	68,924	271,925	499,377	[2]1,377,916	27,123	229
133,998	1,791	228	1,563	19,907	19,944	86	88	4,573	21,268	44,443	95,435	1,099	2291
53,046	538	39	499	8,201	7,970	98	91	6,689	25,764	34,247	63,282	1,194	2292
156,539	1,934	644	1,290	16,549	17,016	84	81	7,139	29,510	57,303	139,565	2,372	2293
87,482	1,215	318	897	14,851	15,818	95	86	4,607	17,038	31,100	93,459	929	2294
435,743	12,396	2,948	9,448	68,965	66,137	86	83	10,182	53,980	100,420	246,616	8,576	2295
375,689	3,010	461	2,549	37,226	38,067	87	91	12,214	36,063	69,844	375,790	6,029	2296

TABLE 3. General Statistics for Establishments, by Industry

Code	Industry group and industry	1963									
		Companies	Establishments		Proprietors and partners	All employees		Production workers			Value added by manufacture, adjusted
			Total	With 20 employees or more		Total	Payroll	Total	Man-hours	Wages	
		(number)	(number)	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)
22	Textile mill products—Con.										
229	Miscellaneous textile goods—Continued										
2297	Scouring and combing plants...	64	69	38	17	5,798	24,749	5,171	10,615	19,812	45,402
2298	Cordage and twine.....	148	167	76	60	8,920	34,524	7,704	14,835	26,590	57,614
2299	Textile goods, n.e.c.....	127	137	56	52	7,283	34,858	5,823	11,665	22,925	78,746
23	Apparel and related products	(NA)	28,457	13,011	17,830	1,279,534	4,423,033	1,132,859	2,052,569	3,482,286	7,861,011
2311	Men's and boys' suits and coats.	1,031	1,112	635	451	122,679	494,240	109,045	198,628	398,071	831,910
232	Men's and boys' furnishings.....	(NA)	2,981	1,885	1,070	305,637	899,477	280,010	513,195	751,556	1,617,756
2321	Men's dress shirts and nightwear.....	659	832	564	214	112,926	316,331	104,022	191,629	273,764	599,423
2322	Men's and boys' underwear.....	65	80	63	13	12,084	32,566	11,305	20,828	28,130	63,186
2323	Men's and boys' neckwear.....	341	341	117	225	8,385	30,875	6,872	11,959	20,632	58,136
2327	Separate trousers.....	667	735	423	294	73,848	224,371	67,938	126,369	186,406	383,134
2328	Work clothing.....	301	439	353	130	62,477	179,612	57,580	105,308	149,811	330,653
2329	Men's and boys' clothing, n.e.c.....	529	554	365	194	35,917	115,722	32,293	57,102	92,813	183,224
233	Women's and misses' outerwear...	(NA)	9,740	5,820	4,559	405,466	1,425,994	356,127	626,579	1,112,085	2,459,739
2331	Blouses[3].....	1,130	1,175	718	621	57,595	177,929	52,099	92,742	145,617	300,525
2335	Dresses[3].....	4,577	4,752	3,013	2,287	200,003	686,818	177,149	306,261	543,656	1,180,883
2337	Women's suits, coats and skirts.....	2,481	2,516	1,380	1,088	88,332	361,001	75,472	133,604	271,450	637,869
2339	Women's outerwear, n.e.c.....	1,252	1,297	709	563	59,536	200,246	51,407	93,972	151,362	340,462
234	Women's and children's underwear	(NA)	1,420	862	515	113,867	378,757	99,840	180,179	282,008	740,921
2341	Women's and children's underwear.....	978	1,069	628	433	76,723	238,850	68,446	123,433	186,282	430,771
2342	Corsets and allied garments...	296	351	234	82	37,144	139,907	31,394	56,746	95,726	310,150
235	Millinery, hats, and caps.....	(NA)	1,147	394	617	30,791	116,039	26,822	48,307	91,669	184,774
2351	Millinery.....	710	711	221	362	14,183	55,576	12,244	21,688	44,277	93,168
2352	Hats and caps.....	413	436	173	255	16,608	60,463	14,578	26,619	47,392	91,606
236	Children's outerwear.....	(NA)	1,576	924	653	81,884	265,059	72,678	130,498	207,258	466,702
2361	Children's dresses and blouses	630	667	412	325	35,792	115,061	31,928	55,885	89,976	205,623
2363	Children's coats and suits....	269	285	152	135	11,848	42,986	10,395	18,562	32,899	72,735
2369	Children's outerwear, n.e.c...	602	624	360	193	34,244	107,012	30,355	56,051	84,383	188,344
2371	Fur goods.....	1,591	1,591	94	1,085	9,289	55,961	7,700	14,484	45,591	110,619
238	Miscellaneous apparel.....	(NA)	1,582	742	703	61,526	208,838	53,987	97,165	160,234	377,165
2381	Fabric dress and work gloves..	170	197	103	83	12,771	36,673	11,859	21,271	31,513	68,372
2384	Robes and dressing gowns.....	268	271	144	140	11,889	37,381	10,482	18,941	29,122	68,717
2385	Waterproof outergarments.....	223	341	196	112	16,448	60,824	14,154	24,964	44,990	111,342
2386	Leather and sheeplined clothing.....	114	114	50	47	3,352	12,817	3,016	5,764	10,535	23,351
2387	Apparel belts.....	388	389	141	185	9,841	35,590	8,295	15,240	24,843	62,172
2389	Apparel, n.e.c.....	265	270	108	136	7,225	25,553	6,181	10,985	19,231	43,211
239	Fabricated textiles, n.e.c.....	(NA)	7,308	1,655	8,177	148,393	578,668	126,650	243,536	433,814	1,071,425
2391	Curtains and draperies.....	1,092	1,121	255	3,855	21,955	75,114	19,023	35,826	56,439	131,995
2392	Housefurnishings, n.e.c.....	1,205	1,239	422	687	39,690	142,820	33,637	63,931	102,676	285,759
2393	Textile bags.....	175	192	88	191	7,191	28,254	6,125	11,906	20,681	56,523
2394	Canvas products.....	869	881	124	643	11,170	44,550	8,964	17,587	30,576	73,534
2395	Pleating and stitching.....	1,315	1,316	245	1,012	16,353	55,528	14,679	27,975	46,349	95,240
2396	Apparel findings.....	746	756	213	405	24,539	122,623	20,813	40,073	94,156	227,810
2397	Schiffli machine embroideries.	755	759	68	679	6,145	30,517	5,529	11,854	25,957	55,411
2399	Textile products, n.e.c.....	1,027	1,044	240	705	21,350	79,252	17,880	34,384	56,980	145,153
24	Lumber and wood products....	(NA)	36,150	5,765	32,567	563,135	2,338,733	497,409	978,665	1,943,287	4,020,600
2411	Logging camps and contractors...	13,522	13,588	557	14,413	73,130	281,845	65,790	122,505	254,122	520,457
242	Sawmills and planing mills.....	(NA)	13,372	2,575	12,498	242,657	935,743	218,640	428,316	805,829	1,572,518
2421	Sawmills and planing mills[3]...	11,931	12,189	2,151	11,801	207,365	811,638	186,616	364,250	701,691	1,376,080
2426	Hardwood dimension and flooring.....	601	642	317	314	28,128	98,882	25,433	52,944	81,735	155,083
2429	Special product sawmills, n.e.c.....	476	541	107	383	7,164	25,223	6,591	11,122	22,403	41,355

See footnotes at end of table.

Groups and Industries: 1963 and 1958—Continued

1963--Continued								1958					Code
Value of shipments	Capital expenditures, new [1]			Inventories end of--		Special-ization ratio	Cover-age ratio	All employees		Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new [1]	
	Total	Structures and additions to plant	Machinery and equipment	1963	1962			Total	Payroll				
($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	(percent)	(percent)	(number)	($1,000)	($1,000)	($1,000)	($1,000)	
119,918	3,335	702	2,633	17,431	16,542	94	69	6,075	22,663	36,073	87,567	1,275	2297
149,331	2,689	530	2,159	38,884	39,420	90	87	9,583	33,134	65,106	141,579	1,632	2298
169,770	5,284	594	4,690	25,938	26,088	85	82	7,862	32,505	60,841	134,623	4,017	2299
[2]17,096,862	128,582	31,993	96,589	2,164,991	2,051,474	(NA)	(NA)	1,181,011	3,586,570	6,001,148	[2]13,573,569	89,713	23
1,526,019	6,856	1,322	5,534	288,671	268,669	92	96	122,205	407,986	[6]642,510	[6]1,295,362	4,906	2311
[2]3,597,826	25,242	6,005	19,237	576,201	529,499	(NA)	(NA)	271,610	690,521	1,128,483	[2]2,683,621	16,503	232
1,295,079	8,770	1,947	6,823	211,043	189,440	85	81	103,948	254,873	[6]423,100	[6]969,902	5,687	2321
134,949	1,087	251	836	22,496	18,111	89	31	11,037	26,650	[6]41,732	[6]102,681	451	2322
121,313	504	159	345	13,656	14,401	98	98	7,734	26,835	[6]48,938	[6]102,405	584	2323
824,224	6,215	1,598	4,617	135,074	126,584	83	78	51,632	134,027	[6]209,050	[6]452,414	3,970	2327
824,710	5,839	1,629	4,210	137,039	127,157	81	90	64,780	154,834	[6]255,481	[6]689,819	3,452	2328
397,551	2,827	421	2,406	56,893	53,806	83	47	32,392	93,119	[6]149,951	[6]365,963	2,359	2329
[2]5,329,840	36,466	10,189	26,277	445,317	435,894	(NA)	(NA)	361,126	1,157,083	1,918,341	[2]4,246,104	22,362	233
610,185	4,418	870	3,548	49,944	44,640	86	69	47,484	125,581	[6]200,164	[6]454,103	2,277	2331
2,410,972	12,699	2,436	10,263	162,563	158,720	96	96	184,717	587,976	[6]970,963	[6]2,043,422	9,436	2335
1,522,725	12,334	5,286	7,048	126,778	126,762	88	92	84,145	309,671	[6]514,901	[6]1,233,227	6,984	2337
785,958	7,015	1,597	5,418	106,032	105,772	80	55	44,146	132,013	[6]229,368	[6]509,569	3,577	2339
[2]1,570,020	9,926	1,590	8,336	241,594	225,246	(NA)	(NA)	111,335	321,591	596,248	[2]1,282,206	8,758	234
976,108	6,412	977	5,435	141,703	134,849	93	85	73,527	199,652	[6]347,705	[6]814,721	5,404	2341
593,912	3,514	613	2,901	99,891	90,397	95	97	37,808	121,939	[6]248,543	[6]467,485	3,354	2342
[2]334,293	2,960	535	2,425	38,970	36,868	(NA)	(NA)	35,539	123,429	200,431	[2]360,955	2,446	235
163,185	686	17	669	10,062	9,704	100	100	17,838	64,095	[6]109,133	[6]190,263	1,371	2351
171,108	2,274	518	1,756	28,908	27,164	98	98	17,701	59,334	[6]91,298	[6]170,692	1,075	2352
[2]1,025,823	6,874	1,419	5,455	125,288	118,965	(NA)	(NA)	80,809	231,184	381,349	[2]843,245	5,014	236
443,343	2,973	953	2,020	44,143	41,376	90	82	36,123	100,818	[6]167,094	[6]355,372	1,847	2361
162,929	1,106	74	1,032	16,364	18,933	92	85	12,798	42,435	[6]68,205	[6]163,821	783	2363
419,551	2,795	392	2,403	64,781	58,656	79	67	31,888	87,931	[6]146,050	[6]324,052	2,384	2369
334,414	1,245	80	1,165	42,862	41,011	99	100	9,355	50,454	[6]95,411	[6]281,335	2,644	2371
[2]821,646	5,624	1,739	3,885	95,279	94,740	(NA)	(NA)	60,026	177,499	306,277	[2]657,286	3,644	238
149,503	1,092	341	751	26,035	25,773	94	82	13,941	32,870	[6]53,930	[6]118,749	556	2381
173,450	818	165	653	13,582	12,774	96	94	10,625	30,461	[6]56,442	[6]132,671	459	2384
235,540	2,185	989	1,196	21,010	18,833	92	93	13,159	43,114	[6]73,070	[6]146,175	958	2385
56,380	315	76	239	5,472	4,852	97	83	4,626	16,166	[6]27,847	[6]65,734	338	2386
108,600	697	19	678	10,935	11,378	91	94	10,150	31,801	[6]53,726	[6]99,053	816	2387
98,173	517	149	368	18,245	21,130	93	82	7,525	23,087	[6]41,262	[6]94,904	517	2389
[2]2,556,981	33,389	9,114	24,275	310,809	300,582	(NA)	(NA)	128,897	426,601	731,699	[2]1,923,455	23,467	239
312,987	2,936	1,074	1,862	34,686	32,648	96	95	16,366	48,403	87,273	217,029	1,861	2391
716,650	8,384	2,230	6,154	98,174	94,167	88	50	36,769	113,402	218,295	616,224	6,072	2392
200,426	1,878	537	1,341	28,260	25,033	88	85	9,114	30,047	51,638	204,379	1,512	2393
166,402	2,090	612	1,478	28,240	27,314	92	91	9,875	35,175	53,696	131,336	1,848	2394
150,183	2,837	789	2,048	10,939	10,282	97	98	32,986	116,993	177,784	431,890	5,769	2395
570,616	8,321	2,512	5,809	55,890	53,229	98	97						2396
97,406	2,425	284	2,141	5,900	5,690	96	99	5,739	24,451	44,311	75,484	3,593	2397
342,311	4,518	1,076	3,442	48,720	52,219	86	75	17,930	57,786	98,087	247,113	2,781	2399
[2]9,200,039	394,729	129,710	265,019	1,352,730	1,335,911	(NA)	(NA)	585,372	2,007,451	3,212,621	[2]7,595,100	286,768	24
1,154,693	95,602	14,899	80,703	99,626	105,882	99	90	71,738	227,963	390,380	868,279	68,357	2411
[2]3,597,604	181,545	83,244	98,301	641,680	637,919	(NA)	(NA)	278,632	869,940	1,344,731	[2]3,272,374	138,817	242
3,156,345	172,471	80,783	91,688	558,622	555,998	89	95	245,907	770,912	1,195,775	2,917,314	129,403	2421
345,227	7,106	2,036	5,070	63,941	60,655	86	86	25,140	75,177	110,354	260,645	7,645	2426
96,032	1,968	425	1,543	19,117	21,266	98	49	7,176	22,097	36,123	89,381	1,682	2429

TABLE 3. General Statistics for Establishments, by Industry

Code	Industry group and industry	1963									
		Companies	Establishments		Proprietors and partners	All employees		Production workers			Value added by manufacture, adjusted
			Total	With 20 employees or more		Total	Payroll	Total	Man-hours	Wages	
		(number)	(number)	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)
24	Lumber and wood products—Continued										
243	Millwork and related products...	(NA)	4,970	1,454	2,976	147,244	726,642	125,569	253,600	572,197	1,239,845
2431	Millwork plants[3].....	3,730	3,770	748	2,666	65,283	320,817	53,519	106,215	240,702	524,041
2432	Veneer and plywood plants.....	532	641	503	149	66,155	324,746	60,455	124,900	281,321	559,211
2433	Prefabricated wood products...	528	559	203	161	15,806	81,079	11,595	22,485	50,174	156,593
244	Wooden containers.....	(NA)	986	320	634	30,945	111,804	27,948	55,333	92,087	174,232
2441	Nailed wooden boxes and shook.	637	663	183	473	14,483	55,858	12,934	26,277	45,944	85,046
2442	Wirebound boxes and crates....	100	117	70	46	9,893	32,717	9,012	17,697	26,669	55,606
2443	Veneer and plywood containers.	84	99	44	66	3,953	11,649	3,682	6,974	9,889	16,086
2445	Cooperage.....	71	107	23	49	2,616	11,580	2,320	4,385	9,585	17,494
249	Miscellaneous wood products[3]....	(NA)	3,234	859	2,046	69,159	282,699	59,462	118,911	219,052	513,548
2491	Wood preserving.....	250	338	157	117	11,178	45,257	9,468	19,373	34,741	93,265
2499	Wood products, n.e.c.[3].....	2,818	2,896	702	1,929	57,981	237,442	49,994	99,538	184,311	420,283
25	Furniture and fixtures.....	(NA)	10,478	3,313	5,894	376,548	1,726,707	314,762	639,698	1,289,989	3,068,287
251	Household furniture.....	(NA)	6,560	2,319	3,636	270,293	1,149,691	231,608	469,601	880,689	2,047,494
2511	Wood furniture not upholstered	2,937	3,063	992	1,851	140,982	574,614	124,699	259,292	462,689	993,200
2512	Wood furniture, upholstered...	1,729	1,785	713	903	67,850	291,587	57,852	113,238	225,565	506,727
2514	Metal household furniture.....	508	517	244	183	29,346	128,819	24,322	47,908	91,987	247,003
2515	Mattresses and bedsprings[3]....	1,066	1,120	340	671	30,061	146,287	22,993	45,765	94,589	285,510
2519	Household furniture, n.e.c....	72	75	30	28	2,054	8,384	1,742	3,398	5,859	15,054
252	Office furniture.....	(NA)	308	165	104	26,444	142,640	21,374	43,346	105,093	285,347
2521	Wood office furniture.....	131	138	58	60	6,516	30,560	5,622	11,815	23,666	57,018
2522	Metal office furniture.....	153	170	107	44	19,928	112,080	15,752	31,531	81,427	228,329
2531	Public building furniture.....	424	429	164	204	16,949	83,373	13,257	26,817	57,435	141,756
254	Partitions and fixtures.....	(NA)	2,107	514	1,245	44,633	261,822	34,372	71,710	185,452	433,495
2541	Wood partitions and fixtures..	1,588	1,594	347	1,008	24,343	142,521	19,446	40,037	106,292	219,194
2542	Metal partitions and fixtures.	502	513	167	237	20,290	119,301	14,926	31,673	79,160	214,301
259	Furniture and fixtures, n.e.c....	(NA)	1,074	151	705	18,229	89,181	14,151	28,224	61,320	160,195
2591	Venetian blinds and shades....	695	718	60	535	10,689	49,590	7,980	15,781	32,511	94,324
2599	Furniture and fixtures, n.e.c.	354	356	91	170	7,540	39,591	6,171	12,443	28,809	65,871
26	Paper and allied products[3]..	(NA)	5,713	3,552	1,113	588,014	3,508,185	467,795	988,582	2,551,148	7,395,677
2611	Pulp mills[3].....	34	45	40	1	15,123	107,359	12,242	25,156	81,018	295,804
2621	Paper mills, except building....	186	325	313	3	129,848	877,942	105,636	234,596	682,034	1,857,203
2631	Paperboard mills.....	146	271	259	5	63,398	429,017	51,334	113,145	326,960	1,186,224
264	Paper and paperboard products...	(NA)	2,495	1,196	655	166,725	917,333	129,359	265,697	632,688	1,962,370
2641	Paper coating and glazing.....	323	387	181	78	31,983	200,794	23,262	49,931	130,287	457,367
2642	Envelopes.....	180	230	173	42	20,728	114,860	16,447	34,211	78,582	188,963
2643	Bags, except textile bags.....	495	586	297	134	42,343	219,137	34,307	69,132	156,692	369,685
2644	Wallpaper.....	77	79	31	11	2,194	11,866	1,650	3,265	7,867	20,907
2645	Die cut paper and board.....	370	425	156	140	15,135	83,373	11,696	23,524	57,070	183,185
2646	Pressed and molded pulp goods.	43	59	42	10	5,720	32,862	4,522	9,697	24,207	70,006
2647	Sanitary paper products.....	97	119	77	14	19,108	112,539	15,261	32,339	85,928	369,711
2649	Converted paper products, n.e.c.....	570	610	239	226	29,514	141,902	22,214	43,598	92,055	302,546
265	Paperboard containers and boxes.	(NA)	2,494	1,667	446	201,046	1,106,897	159,066	328,626	771,539	1,940,973
2651	Folding paperboard boxes.....	534	636	418	115	51,291	288,841	41,451	85,550	206,654	476,866
2652	Set-up paperboard boxes.....	474	503	317	152	20,459	82,229	17,659	34,523	61,534	131,688
2653	Corrugated shipping containers	534	923	651	120	83,229	485,594	62,800	132,289	323,829	804,012
2654	Sanitary food containers.....	98	186	144	14	32,879	182,745	25,935	53,448	129,247	402,211
2655	Fiber cans, tubes, drums, etc.	166	246	137	45	13,188	67,488	11,221	22,816	50,275	126,196
2661	Building paper and board mills[3].	33	83	77	3	11,874	69,637	10,158	21,362	56,909	153,103
27	Printing and publishing.....	(NA)	38,090	7,215	23,567	913,243	5,514,816	559,843	1,083,179	3,190,988	10,476,433
2711	Newspapers.....	7,982	8,331	1,865	5,815	306,439	1,784,570	160,061	294,541	935,160	3,201,872
2721	Periodicals.....	2,562	2,630	402	1,006	67,730	461,124	12,257	22,134	65,573	1,349,030
273	Books.....	(NA)	1,676	531	568	82,913	494,839	41,451	83,013	224,033	1,354,030
2731	Books, publishing and printing	936	993	256	305	46,812	280,664	11,810	23,450	59,474	995,736
2732	Book printing.....	662	683	275	263	36,101	214,175	29,641	59,563	164,559	358,294

See footnotes at end of table.

Groups and Industries: 1963 and 1958—Continued

1963--Continued								1958					Code
Value of shipments	Capital expenditures, new[1]			Inventories end of--		Special-ization ratio	Cover-age ratio	All employees		Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new[1]	
	Total	Structures and additions to plant	Machinery and equipment	1963	1962			Total	Payroll				
($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	(percent)	(percent)	(number)	($1,000)	($1,000)	($1,000)	($1,000)	
[2]3,013,552	70,563	18,563	52,000	387,638	367,486	(NA)	(NA)	135,078	571,772	926,351	[2]2,255,961	46,250	243
1,270,613	20,935	7,813	13,122	190,548	183,590	95	93	61,962	267,997	412,548	1,049,571	16,878	2431
1,339,630	41,887	8,157	33,730	144,447	139,816	92	94	59,346	240,821	390,131	884,111	24,954	2432
403,309	7,741	2,593	5,148	52,643	44,080	98	96	13,550	61,984	122,344	322,279	4,418	2433
[2]401,529	8,531	3,296	5,235	60,733	61,609	(NA)	(NA)	38,308	117,488	176,582	[2]409,773	6,194	244
206,020	6,014	2,754	3,260	25,325	23,394	85	83	19,015	62,424	92,322	211,407	3,251	2441
114,669	1,565	316	1,249	13,594	13,496	92	93	10,006	27,946	46,094	97,991	1,226	2442
27,923	336	120	216	5,161	4,647	90	79	5,416	12,850	18,323	30,271	579	2443
52,917	616	106	510	16,653	20,072	97	99	3,871	14,268	19,843	70,070	1,138	2445
[2]1,032,661	38,488	9,708	28,780	163,053	163,015	(NA)	(NA)	61,427	219,745	373,818	[2]787,265	27,150	249
247,294	5,548	1,004	4,544	61,884	60,544	98	97	10,933	36,625	72,508	202,957	3,661	2491
785,367	32,940	8,704	24,236	101,169	102,471	92	87	50,494	183,120	301,310	584,308	23,489	2499
5,884,064	110,180	40,582	69,598	827,228	791,583	(NA)	(NA)	354,165	1,413,687	2,395,986	[2]4,765,877	82,248	25
[2]4,035,446	68,842	23,497	45,345	536,701	508,667	(NA)	(NA)	257,729	966,267	1,623,706	[2]3,362,224	51,543	251
1,857,992	40,409	14,448	25,961	285,345	273,432	94	96	125,619	443,289	706,330	1,382,209	26,234	2511
983,204	13,653	5,473	8,180	104,251	95,049	92	92	67,655	256,969	432,194	877,366	11,024	2512
524,305	6,840	1,127	5,713	69,934	66,686	88	89	30,338	124,620	218,667	496,147	6,266	2514
641,008	7,310	2,311	4,999	73,513	69,856	90	90	31,713	132,258	248,801	572,150	7,333	2515
28,937	630	138	492	3,658	3,644	84	51	2,205	8,383	16,176	30,643	686	2519
[2]491,479	15,710	8,056	7,654	84,368	84,114	(NA)	(NA)	23,290	109,512	212,100	[2]354,396	6,093	252
101,514	1,511	873	638	17,134	16,015	90	87	5,821	23,516	38,427	68,392	840	2521
389,965	14,199	7,183	7,016	67,234	68,099	87	89	17,469	85,996	173,673	286,004	5,253	2522
268,563	4,369	1,203	3,166	53,846	49,817	88	85	15,952	69,342	112,881	208,406	4,941	2531
[2]767,452	15,286	5,182	10,104	103,303	100,097	(NA)	(NA)						254
389,609	6,766	2,708	4,058	46,496	44,634	94	89	37,747	186,636	301,250	[2]538,872	13,644	2541
377,843	8,520	2,474	6,046	56,807	55,463	83	82						2542
[2]321,124	5,973	2,644	3,329	49,010	48,888	(NA)	(NA)	19,401	81,774	145,654	[2]301,295	6,027	259
199,552	4,282	2,381	1,901	34,708	35,191	89	90	11,309	44,020	84,856	189,618	3,336	2591
121,572	1,691	263	1,428	14,302	13,697	86	70	7,990	37,450	60,189	110,360	2,691	2599
[2]16,357,102	708,532	118,838	589,694	1,759,327	1,698,554	(NA)	(NA)	551,338	2,759,387	5,668,720	[2]12,897,517	634,446	26
609,050	38,899	7,454	31,445	65,404	70,244	88	71	14,171	74,797	196,026	427,997	42,991	2611
3,824,915	232,779	29,948	202,831	430,219	417,913	90	92	131,334	740,988	1,542,746	3,259,415	258,769	2621
2,315,954	159,528	32,835	126,693	149,885	151,862	85	90	57,086	321,765	840,057	1,690,918	102,100	2631
[2]4,686,353	128,520	21,912	106,608	528,821	503,051	(NA)	(NA)	150,972	704,602	1,412,894	[2]3,601,574	81,493	264
1,161,604	45,602	8,753	36,849	139,029	128,555	82	78	27,794	143,476	319,588	805,185	16,837	2641
363,250	8,118	1,083	7,035	43,682	42,920	94	96	17,757	84,566	138,318	271,631	6,430	2642
1,061,715	26,671	4,114	22,557	134,106	125,681	86	88	39,042	169,888	308,874	908,521	18,523	2643
36,548	359	25	334	8,455	8,452	97	99	2,806	13,417	21,463	40,840	416	2644
378,332	7,731	1,643	6,088	37,356	38,781	88	82	12,209	58,512	111,164	251,364	10,613	2645
110,135	11,558	1,312	10,246	14,105	12,319	99	96	4,472	21,254	49,819	78,780	2,170	2646
983,019	16,628	2,741	13,887	59,430	54,878	93	97						2647
591,750	11,853	2,241	9,612	92,658	91,465	84	78	46,892	213,489	463,668	1,245,092	26,504	2649
[2]4,639,266	140,741	26,014	114,727	558,503	530,145	(NA)	(NA)	181,177	835,016	1,501,629	[2]3,587,805	136,008	265
1,081,147	36,008	7,936	28,072	152,818	146,393	85	88	46,389	221,989	391,031	887,209	34,081	2651
225,794	5,049	751	4,298	26,788	25,441	91	87	23,532	80,924	124,892	219,240	5,930	2652
2,166,137	54,094	12,711	41,383	210,370	197,218	97	96	70,792	345,117	596,934	1,635,650	51,955	2653
905,931	37,901	3,426	34,475	143,164	137,847	92	92	29,493	139,131	309,224	680,079	35,774	2654
260,257	7,689	1,190	6,499	25,363	23,246	95	80	10,971	47,855	79,548	165,627	8,268	2655
281,564	8,065	675	7,390	26,495	25,339	97	88	16,598	82,219	175,368	329,808	13,085	2661
[2]16,165,744	463,904	111,020	352,884	1,315,098	1,199,039	(NA)	(NA)	864,607	4,489,245	7,973,195	[2]12,589,037	421,547	27
4,483,592	135,198	39,263	95,935	115,305	117,253	96	100	295,622	1,499,939	2,528,774	3,628,021	148,209	2711
2,295,716	33,784	13,921	19,863	131,358	113,604	89	96	66,749	386,710	974,513	1,729,485	35,051	2721
[2]2,081,219	50,371	15,195	35,176	410,446	363,429	(NA)	(NA)	67,127	335,849	843,034	[2]1,390,796	23,936	273
1,534,632	25,426	9,423	16,003	362,408	318,008	93	88	38,502	191,859	616,241	1,033,144	13,090	2731
546,587	24,945	5,772	19,173	48,038	45,421	78	69	28,625	143,990	226,793	357,652	10,846	2732

TABLE 3. General Statistics for Establishments, by Industry

Code	Industry group and industry	1963									
		Companies	Establishments		Proprietors and partners	All employees		Production workers			Value added by manufacture, adjusted
			Total	With 20 employees or more		Total	Payroll	Total	Man-hours	Wages	
		(number)	(number)	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)
27	Printing and publishing—Continued										
2741	Miscellaneous publishing.....	1,308	1,374	177	568	22,551	130,427	9,798	18,688	48,799	252,932
275	Commercial printing.....	(NA)	19,511	2,848	13,365	300,309	1,852,525	234,602	465,335	1,355,829	2,961,069
2751	Printing, except lithographic.	11,979	12,109	1,404	9,043	170,215	1,007,469	136,118	264,230	762,732	1,578,275
2752	Printing, lithographic.....	6,738	6,822	1,339	3,978	121,072	794,353	91,358	187,293	554,933	1,302,046
2753	Engraving and plate printing..	574	580	105	344	9,022	50,703	7,126	13,812	38,164	80,748
2761	Manifold business forms.....	439	502	250	172	28,796	173,238	21,259	43,296	116,680	377,710
2771	Greeting card manufacturing.....	239	257	93	117	21,535	105,600	13,356	26,187	53,891	204,608
278	Bookbinding and related work....	(NA)	1,453	469	831	42,237	206,174	36,076	69,559	157,292	340,763
2782	Blankbooks; looseleaf binders.	380	410	158	190	17,899	91,197	14,412	28,710	64,392	168,465
2789	Bookbinding and related work..	1,038	1,043	311	641	24,338	114,977	21,664	40,849	92,900	172,298
279	Printing trades services.....	(NA)	2,356	580	1,125	40,733	306,319	30,983	60,426	233,731	434,419
2791	Typesetting.....	1,271	1,289	282	707	20,997	147,286	16,944	33,517	118,664	205,450
2793	Photoengraving.....	872	883	218	371	14,620	119,743	10,271	19,643	86,582	171,796
2794	Electrotyping and stereotyping	170	184	80	47	5,116	39,290	3,768	7,266	28,485	57,173
28	Chemicals and allied products.....	(NA)	11,996	3,985	2,856	737,414	4,969,843	474,141	963,361	2,779,938	17,586,138
281	Basic chemicals[3].....	(NA)	1,905	897	214	236,652	1,763,225	155,649	315,920	1,052,889	6,171,182
2812	Alkalies and chlorine.....	19	38	37	-	19,652	138,156	13,489	27,594	88,091	389,243
2813	Industrial gases.....	104	456	146	15	9,809	66,551	5,250	11,069	33,459	260,182
2814	Cyclic (coal tar) crudes.....	8	36	17	1	1,636	11,009	1,314	2,855	8,615	35,103
2815	Intermediate coal tar products	112	141	84	14	26,089	190,849	17,576	35,725	116,149	570,234
2816	Inorganic pigments.....	69	96	49	11	11,544	76,372	8,135	16,161	49,859	286,407
2818	Organic chemicals, n.e.c.....	343	464	241	71	85,492	677,252	56,370	114,438	405,019	2,727,450
2819	Inorganic chemicals, n.e.c....	404	674	323	102	82,430	603,036	53,515	108,078	351,697	1,902,563
282	Fibers, plastics, rubbers.....	(NA)	577	323	80	144,713	973,910	101,690	207,403	602,648	2,865,399
2821	Plastics materials and resins.	391	509	256	79	61,366	437,566	41,446	86,134	264,499	1,202,349
2822	Synthetic rubber.....	16	24	24	-	11,840	93,507	7,844	15,915	56,615	329,520
2823	Cellulosic man-made fibers....	8	19	19	-	30,086	167,028	24,015	48,114	120,492	411,529
2824	Organic fibers, noncellulosic.	14	25	24	1	41,421	275,809	28,385	57,240	161,042	922,001
283	Drugs.....	(NA)	1,262	401	312	99,001	673,775	54,911	110,033	296,631	2,807,331
2831	Biological products.....	102	113	40	21	5,789	33,813	3,649	7,228	17,032	60,377
2833	Medicinals and botanicals.....	122	138	42	19	8,128	59,324	5,325	11,134	33,606	151,297
2834	Pharmaceutical preparations...	944	1,011	319	272	85,084	580,638	45,937	91,671	245,993	2,595,657
284	Cleaning and toilet goods.....	(NA)	2,660	587	874	85,572	525,842	53,309	107,010	275,225	2,866,446
2841	Soap and other detergents.....	641	704	172	208	30,794	214,144	20,116	41,005	127,611	1,137,425
2842	Polishes and sanitation goods.	1,075	1,101	173	434	16,332	96,586	9,477	18,971	42,342	420,440
2843	Surface active agents.....	137	148	59	33	4,108	31,893	2,162	4,586	12,795	75,698
2844	Toilet preparations.....	673	707	183	199	34,338	183,219	21,554	42,448	92,477	1,232,883
2851	Paints and allied products.....	1,579	1,788	654	396	61,267	401,240	33,825	69,113	183,533	1,111,681
2861	Gum and wood chemicals[7].....	229	246	53	135	6,787	32,682	5,357	10,800	22,884	100,329
287	Agricultural chemicals.....	(NA)	1,354	543	271	42,834	213,149	29,465	61,246	128,900	628,273
2871	Fertilizers.....	145	281	199	36	19,992	102,294	14,842	31,899	70,812	287,800
2872	Fertilizers, mixing only.....	537	733	232	172	13,752	59,390	9,343	18,714	33,673	164,140
2879	Agricultural chemicals, n.e.c.	241	340	112	63	9,090	51,465	5,280	10,633	24,415	176,333
289	Miscellaneous chemical products.	(NA)	2,204	527	574	60,588	386,020	39,935	81,836	217,228	1,035,497
2891	Glue and gelatin.....	294	368	104	71	8,521	54,869	5,426	11,245	28,620	147,006
2892	Explosives.....	41	68	47	11	14,814	91,613	10,919	20,881	60,114	165,733
2893	Printing ink.....	216	348	103	69	8,455	55,943	5,628	11,785	32,440	125,138
2895	Carbon black.....	8	33	31	-	3,010	20,669	2,287	4,913	14,915	91,752
2899	Chemical preparations, n.e.c..	1,312	1,387	242	423	25,788	162,926	15,675	33,012	81,139	505,868
29	Petroleum and coal products[3]	(NA)	1,839	689	318	153,486	1,133,765	109,448	216,679	745,123	3,713,231
2911	Petroleum refining.....	266	427	297	71	119,297	922,319	85,929	166,409	614,318	3,137,603
295	Paving and roofing materials....	(NA)	992	267	137	24,261	144,542	17,640	38,122	97,342	355,565
2951	Paving mixtures and blocks....	528	762	127	108	9,680	62,065	6,746	15,076	40,014	165,584
2952	Asphalt felts and coatings....	126	230	140	29	14,581	82,477	10,894	23,046	57,328	189,981

See footnotes at end of table.

Groups and Industries: 1963 and 1958—Continued

1963--Continued								1958					Code
Value of shipments	Capital expenditures, new[1]			Inventories end of--		Special-ization ratio	Cover-age ratio	All employees		Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new[1]	
	Total	Structures and additions to plant	Machinery and equipment	1963	1962			Total	Payroll				
($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	(percent)	(percent)	(number)	($1,000)	($1,000)	($1,000)	($1,000)	
389,588	7,113	2,262	4,851	27,176	26,800	92	84	19,301	91,753	199,181	307,916	5,993	2741
[2]4,905,840	179,941	32,507	147,434	416,506	364,774	(NA)	(NA)	288,337	1,519,224	2,348,372	[2]3,968,141	158,634	275
2,645,051	99,228	19,217	80,011	245,674	203,888	86	79	279,290	1,476,109	2,283,901	3,880,939	155,038	2751
2,149,651	76,877	12,110	64,767	160,624	151,628	80	82						2752
111,138	3,836	1,180	2,656	10,208	9,258	89	79	9,047	43,115	64,471	87,202	3,596	2753
637,673	23,084	3,183	19,901	64,416	63,714	90	91	23,618	120,945	245,229	405,731	14,755	2761
345,961	6,847	1,898	4,949	75,240	79,096	92	96	21,777	89,405	178,563	291,480	5,154	2771
[2]496,696	14,114	1,289	12,825	54,658	50,850	(NA)	(NA)	40,032	166,472	265,382	[2]399,849	13,426	278
268,219	6,120	540	5,580	39,945	38,161	88	88	17,872	79,024	132,660	217,862	6,805	2782
228,477	7,994	749	7,245	14,713	12,689	95	83	22,160	87,448	132,722	181,987	6,621	2789
[2]529,459	13,452	1,502	11,950	19,993	19,519	(NA)	(NA)	42,021	278,862	389,956	[2]467,240	16,389	279
241,014	6,747	506	6,241	10,710	10,685	95	90	18,011	109,352	155,123	177,186	7,181	2791
212,377	5,720	925	4,795	6,123	5,599	95	91	17,251	125,337	172,158	208,911	6,992	2793
76,068	985	71	914	3,160	3,235	87	86	6,759	44,173	62,675	81,143	2,216	2794
[2]31,772,722	1,545,689	354,876	1,190,816	3,825,760	3,702,178	(NA)	(NA)	698,312	3,940,461	12,308,024	[2]23,129,493	1,244,472	28
[2]11,109,077	813,266	173,814	639,452	1,242,570	1,214,885	(NA)	(NA)	238,104	1,459,683	4,313,837	[2]7,986,172	666,035	281
652,120	57,470	6,590	50,880	64,328	64,130	66	79	20,476	115,024	306,187	504,309	27,871	2812
425,388	93,518	18,059	75,459	15,284	15,273	98	87	10,642	56,661	174,249	277,441	48,578	2813
105,172	2,225	198	2,027	16,138	14,662	(D)	(D)	2,084	12,008	29,993	116,972	4,036	2814
1,107,583	104,600	15,739	88,861	194,818	166,485	69	65	26,218	155,411	373,106	817,387	73,919	2815
484,768	17,365	1,988	15,377	86,597	89,758	91	87	11,368	61,867	235,658	417,673	42,880	2816
4,840,176	400,981	73,068	327,913	552,836	546,828	72	81	77,442	508,433	1,725,790	3,097,963	330,317	2818
3,493,870	137,107	58,172	78,935	312,569	317,749	88	74	89,874	550,279	1,468,854	2,754,427	138,434	2819
[2]5,470,376	378,561	59,171	319,390	604,206	590,618	(NA)	(NA)	121,536	683,376	1,899,770	[2]3,794,198	291,206	282
2,571,492	137,781	25,842	111,939	321,812	314,716	84	64	51,003	308,212	871,956	1,846,667	178,882	2821
763,891	32,328	3,755	28,573	76,829	74,957	92	80	9,252	60,909	197,866	536,348	16,046	2822
731,815	38,129	5,511	32,618	81,555	86,154	(D)	(D)	42,597	211,513	390,310	722,818	42,619	2823
1,403,178	170,323	24,063	146,260	124,010	114,791	95	97	18,684	102,742	439,638	688,365	53,659	2824
[2]3,715,860	113,328	54,153	59,178	530,214	501,359	(NA)	(NA)	95,940	545,691	2,096,288	[2]2,977,950	111,688	283
95,744	10,091	4,866	5,225	29,523	25,895	88	45	3,692	16,218	38,947	63,833	4,565	2831
305,793	13,951	4,073	9,878	72,423	68,685	71	47	10,246	62,877	175,817	322,286	34,770	2833
3,314,323	89,286	45,214	44,075	428,268	406,779	87	94	82,002	466,596	1,881,524	2,591,831	72,353	2834
[2]4,855,451	84,731	22,743	61,988	466,360	455,500	(NA)	(NA)	78,618	417,514	1,903,101	[2]3,376,749	42,322	284
2,127,789	44,056	10,898	33,158	195,224	195,191	82	92	29,603	181,485	857,585	1,605,935	17,795	2841
757,179	13,306	3,903	9,403	73,632	75,391	82	72	16,429	82,594	295,566	585,029	7,082	2842
177,821	7,183	1,392	5,791	22,537	23,060	80	47	3,122	19,484	52,421	126,624	3,127	2843
1,792,662	20,186	6,550	13,636	174,967	161,858	91	84	29,464	133,951	697,529	1,059,161	14,318	2844
2,456,361	37,705	13,091	24,614	340,188	324,494	95	96	58,770	323,372	806,895	1,878,733	35,363	2851
212,850	5,638	1,410	4,228	53,750	50,426	74	77	7,251	30,097	85,302	182,176	4,928	2861
[2]1,968,944	66,518	19,489	47,029	350,429	332,377	(NA)	(NA)	38,679	160,421	414,781	[2]1,376,982	39,929	287
869,213	45,476	13,908	31,568	148,876	143,918	89	97	18,728	79,022	197,943	605,249	24,276	2871
623,070	11,987	3,602	8,385	108,226	102,677	94	96	12,161	43,610	105,845	438,628	8,676	2872
476,661	9,055	1,979	7,076	93,327	85,782	87	69	7,790	37,789	110,993	333,105	6,977	2879
1,983,803	45,942	11,005	34,937	238,043	232,519	(NA)	(NA)	59,117	319,267	785,236	[2]1,547,476	53,001	289
351,680	9,778	2,676	7,102	47,014	47,142	83	72	7,890	42,146	106,383	245,205	8,077	2891
283,298	5,500	1,305	4,195	27,224	28,536	88	94	14,971	79,597	131,646	228,614	9,350	2892
268,012	4,632	1,397	3,235	31,071	32,022	93	92	7,960	45,069	108,803	228,141	4,817	2893
149,122	3,972	640	3,332	15,045	16,996	(D)	(D)	3,162	18,606	72,641	119,271	4,612	2895
931,691	22,060	4,987	17,073	117,689	107,823	82	71	25,134	133,849	365,763	726,245	26,145	2899
[2]17,994,742	413,681	283,759	129,902	1,818,020	1,829,302	(NA)	(NA)	179,166	1,116,673	2,518,424	[2]15,623,067	681,805	29
16,496,896	385,126	275,259	109,867	1,695,549	1,708,184	98	97	146,025	944,332	2,119,402	14,539,055	656,788	2911
[2]955,092	22,009	6,595	15,414	55,158	53,732	(NA)	(NA)	23,317	119,472	269,035	[2]727,780	16,469	295
427,460	15,055	4,965	10,090	12,108	11,869	92	89	7,797	42,028	112,548	267,676	9,856	2951
527,632	6,954	1,630	5,324	43,050	41,863	90	92	15,520	77,444	156,487	460,104	6,613	2952

TABLE 3. General Statistics for Establishments, by Industry

Code	Industry group and industry	1963									
		Companies	Establishments		Proprietors and partners	All employees		Production workers			Value added by manufacture, adjusted
			Total	With 20 employees or more		Total	Payroll	Total	Man-hours	Wages	
		(number)	(number)	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)
	Petroleum and coal products[3]—Continued										
299	Petroleum and coal products, n.e.c.	(NA)	420	125	110	9,928	66,904	5,879	12,148	33,463	220,063
2992	Lubricating oils and greases	311	353	108	86	8,433	57,946	4,701	9,778	27,007	199,074
2999	Petroleum and coal products, n.e.c.[7]	59	67	17	24	1,495	8,958	1,178	2,370	6,456	20,989
30	Rubber and plastics products, n.e.c.	(NA)	5,728	2,449	1,651	414,959	2,364,033	328,785	658,464	1,672,376	4,653,953
3011	Tires and inner tubes	105	155	96	37	85,259	621,741	66,268	131,783	460,145	1,321,712
3021	Rubber footwear	44	53	46	4	29,147	130,361	25,951	48,168	105,763	216,959
3031	Reclaimed rubber	7	13	13	2	2,010	13,598	1,658	3,145	10,413	27,378
3069	Rubber products, n.e.c.	1,046	1,173	620	300	132,228	760,761	100,581	203,392	516,065	1,427,022
3079	Plastics products, n.e.c.	4,101	4,334	1,674	1,308	166,315	837,572	134,327	271,976	579,990	1,660,882
31	Leather and leather products	(NA)	4,047	2,073	2,345	327,489	1,227,824	292,339	543,094	982,096	2,078,572
3111	Leather tanning and finishing	482	525	256	328	31,417	163,307	27,282	54,556	129,756	273,092
3121	Industrial leather belting	81	83	23	63	2,870	15,897	2,099	4,198	9,723	32,915
3131	Footwear cut stock	414	446	204	376	14,339	53,420	12,600	23,694	40,867	90,611
314	Footwear, except rubber	(NA)	1,193	912	570	212,767	753,359	192,795	352,223	619,751	1,279,295
3141	Shoes, except rubber	784	1,040	815	460	201,728	713,577	182,901	334,969	589,369	1,214,740
3142	House slippers	149	153	97	110	11,039	39,782	9,894	17,254	30,382	64,555
3151	Leather gloves	160	166	87	92	7,718	24,439	6,899	12,244	19,481	32,194
3161	Luggage	377	379	145	202	16,409	62,853	14,134	26,340	46,715	112,796
317	Purses and small leather goods	(NA)	885	379	449	36,980	135,807	32,321	61,332	102,135	224,939
3171	Handbags and purses	539	545	262	258	24,548	88,455	22,001	41,752	70,058	142,554
3172	Small leather goods	325	340	117	191	12,432	47,352	10,320	19,580	32,077	82,385
3199	Leather goods, n.e.c.	365	370	67	265	4,989	18,742	4,209	8,507	13,668	32,730
32	Stone, clay and glass products	(NA)	15,838	4,655	7,699	573,859	3,212,495	455,818	928,948	2,350,223	7,043,987
3211	Flat glass	11	31	30	-	22,815	172,214	19,440	39,704	143,752	364,466
322	Pressed and blown glassware	(NA)	220	200	11	97,986	535,248	86,533	171,910	446,612	1,101,820
3221	Glass containers	40	113	105	6	59,987	327,956	53,476	107,055	278,691	629,608
3229	Pressed and blown glass, n.e.c.	75	107	95	5	37,999	207,292	33,057	64,855	167,921	472,212
3231	Products of purchased glass	1,016	1,044	249	562	26,158	138,275	21,669	43,384	103,890	309,734
3241	Cement, hydraulic	55	188	179	1	34,863	227,385	28,719	57,579	173,891	785,681
325	Structural clay products	(NA)	916	681	188	65,034	320,922	54,840	111,520	244,766	553,809
3251	Brick and structural tile	401	512	400	107	28,620	130,378	24,665	51,237	102,597	216,548
3253	Ceramic wall and floor tile	72	90	64	20	12,795	63,745	10,409	21,002	43,794	110,571
3255	Clay refractories	80	150	109	14	11,431	64,822	9,402	18,139	49,648	118,248
3259	Structural clay products, n.e.c.	126	164	108	47	12,188	61,977	10,364	21,142	48,727	108,442
326	Pottery and related products	(NA)	638	229	400	42,198	212,869	35,342	68,492	163,702	337,160
3261	Vitreous plumbing fixtures	34	49	43	2	9,280	56,794	7,893	15,519	46,588	101,502
3262	Vitreous china food utensils	26	31	21	10	6,314	29,552	5,288	9,817	21,773	42,504
3263	Fine earthenware food utensils	20	21	18	3	7,349	31,614	6,594	12,319	26,416	41,046
3264	Porcelain electrical supplies	74	79	49	21	10,170	57,401	8,028	15,917	41,120	90,001
3269	Pottery products, n.e.c.	449	458	98	364	9,085	37,508	7,539	14,920	27,805	62,107
327	Concrete and plaster products	(NA)	10,160	2,244	5,402	165,848	906,026	118,505	251,697	591,622	2,122,283
3271	Concrete block and brick	1,786	1,841	367	1,140	23,759	119,543	16,702	36,081	72,748	245,525
3272	Concrete products	3,130	3,451	716	2,205	52,297	266,706	41,093	87,256	190,945	539,967
3273	Ready mixed concrete	3,999	4,621	1,021	1,992	71,523	410,539	46,110	96,228	244,955	981,997
3274	Lime	81	125	68	29	6,778	38,903	5,384	11,366	28,519	95,135
3275	Gypsum products	60	122	72	36	11,491	70,335	9,216	20,766	54,455	259,659
3281	Cut stone and stone products	857	893	211	558	18,340	85,745	15,259	30,896	66,657	131,465

See footnotes at end of table.

Groups and Industries: 1963 and 1958—Continued

1963--Continued								1958					Code
Value of shipments	Capital expenditures, new[1]			Inventories end of--		Special-ization ratio	Cover-age ratio	All employees		Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new[1]	
	Total	Structures and additions to plant	Machinery and equipment	1963	1962			Total	Payroll				
($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	(percent)	(percent)	(number)	($1,000)	($1,000)	($1,000)	($1,000)	
[2]542,754	6,546	1,905	4,641	67,313	67,386	(NA)	(NA)	9,824	52,869	129,987	[2]356,232	8,548	299
471,229	4,703	1,598	3,105	52,046	49,092	91	33	7,568	42,349	103,084	281,377	7,230	2992
71,525	1,843	307	1,536	15,267	18,294	96	91	2,256	10,520	26,903	74,855	1,318	2999
[2]9,116,230	343,466	58,564	284,902	1,189,924	1,159,641	(NA)	(NA)	347,842	1,723,295	3,276,612	[2]6,599,638	197,138	30
2,949,673	112,783	14,640	98,143	413,217	411,351	(D)	99	89,395	521,855	1,179,957	2,577,788	72,269	3011
354,239	6,903	822	6,081	86,390	82,969	93	90	20,359	85,611	149,608	229,439	3,109	3021
48,879	1,309	53	1,256	5,823	5,232	(D)	77	2,215	11,658	20,843	39,260	964	3031
2,597,999	64,955	12,752	52,203	323,446	325,907	86	89	119,565	592,964	997,254	1,885,274	43,603	3069
3,165,440	157,516	30,297	127,219	361,048	334,182	92	80	116,308	511,207	928,950	1,867,877	77,193	3079
[2]4,209,614	34,566	6,257	28,309	551,861	566,439	(NA)	(NA)	349,165	1,145,965	1,898,007	[2]3,896,165	31,825	31
758,408	6,480	756	5,724	140,301	149,201	99	100	37,130	165,545	275,796	743,124	7,905	3111
51,869	742	75	667	7,726	7,667	89	84	3,975	18,689	36,300	66,560	1,233	3121
229,253	1,620	184	1,436	22,980	24,310	93	94	18,031	58,489	98,380	256,652	2,002	3131
[2]2,372,727	19,570	4,386	15,184	280,454	285,248	(NA)	(NA)	226,928	699,738	1,146,409	[2]2,161,612	15,123	314
2,249,167	18,470	4,225	14,245	268,527	273,045	99	99	215,311	662,421	[6]1,086,260	[6]2,048,857	14,533	3141
123,560	1,100	161	939	11,927	12,203	90	85	11,520	37,057	[6]59,656	[6]112,145	590	3142
80,640	328	96	232	14,858	16,532	81	89	6,212	15,999	[6]25,999	[6]54,155	263	3151
210,303	1,908	139	1,769	36,292	33,312	95	94	15,856	54,717	96,560	184,722	1,504	3161
[2]439,356	3,152	412	2,740	39,723	40,824	(NA)	(NA)	35,628	115,137	187,336	[2]369,162	2,953	317
280,343	1,890	282	1,608	18,808	19,632	98	98	21,971	68,654	111,545	231,110	1,575	3171
159,013	1,262	130	1,132	20,915	21,192	96	92	13,657	46,483	75,791	138,052	1,378	3172
67,058	766	209	557	9,527	9,345	94	82	5,405	17,651	31,227	60,178	842	3199
[2]12,289,091	607,581	156,428	451,153	1,522,406	1,471,029	(NA)	(NA)	552,522	2,586,373	5,533,392	[2]9,726,543	488,628	32
549,390	28,244	5,106	23,138	72,669	71,489	90	(D)	21,179	133,551	263,151	384,711	21,607	3211
[2]1,635,409	76,469	19,728	56,741	232,707	206,119	(NA)	(NA)	90,295	421,189	844,811	[2]1,307,478	50,551	322
1,004,464	53,805	13,495	40,310	137,349	120,575	99	99	54,937	259,893	532,469	862,117	31,164	3221
630,945	22,664	6,233	16,431	95,358	85,544	96	97	35,358	161,296	312,342	445,361	19,387	3229
627,327	13,223	2,932	10,291	88,888	85,208	90	(D)	24,024	109,570	242,657	468,809	16,526	3231
1,176,913	120,843	36,192	84,651	180,625	181,942	99	100	41,127	214,221	724,771	1,073,494	113,095	3241
[2]841,715	42,192	13,233	28,959	162,707	160,753	(NA)	(NA)	70,305	292,876	490,448	[2]720,585	34,862	325
325,093	19,344	6,434	12,910	48,007	49,812	98	98	31,087	122,868	196,890	286,709	14,023	3251
164,668	9,070	3,348	5,722	33,250	31,881	95	99	13,068	53,738	92,779	135,470	3,276	3253
192,230	7,936	1,521	6,415	54,001	53,941	91	93	12,394	59,816	104,898	163,478	10,804	3255
159,724	5,842	1,930	3,912	27,449	25,119	89	95	13,756	56,454	95,881	134,928	6,759	3259
[2]492,989	11,169	2,057	9,112	77,820	75,097	(NA)	(NA)	44,000	180,470	283,009	[2]416,883	10,770	326
155,658	2,442	512	1,930	26,818	25,363	97	97	9,677	49,568	87,293	142,683	1,613	3261
50,954	724	39	685	11,873	11,442	(D)	91	7,248	28,573	39,285	47,695	906	3262
59,046	797	33	764	9,663	9,835	92	91	8,718	28,749	36,311	50,230	586	3263
131,790	4,142	579	3,563	19,599	19,789	91	95	9,107	42,362	66,074	97,475	4,390	3264
95,541	3,064	894	2,170	9,867	8,668	87	89	9,250	31,218	54,046	78,800	3,275	3269
[2]4,312,849	210,634	52,079	158,555	298,961	288,802	(NA)	(NA)	149,947	692,697	1,553,639	[2]3,318,562	157,160	327
505,194	31,143	6,132	25,011	57,990	54,511	92	84	22,766	98,103	190,355	413,670	22,790	3271
925,677	43,550	11,918	31,632	126,083	123,918	94	94	46,283	200,231	391,366	720,111	44,310	3272
2,292,504	106,010	27,759	78,251	64,453	65,134	92	98	62,116	303,111	679,385	1,687,151	71,603	3273
164,366	14,730	2,108	12,622	13,979	14,204	82	94	7,185	32,754	73,597	130,948	6,362	3274
425,108	15,201	4,162	11,039	36,456	31,035	97	98	11,502	57,978	218,042	364,947	12,095	3275
217,176	6,693	1,378	5,315	31,199	29,779	94	99	20,348	83,038	129,038	206,264	8,405	3281

TABLE 3. General Statistics for Establishments, by Industry

Code	Industry group and industry	1963									
		Establishments			Proprietors and partners	All employees		Production workers			Value added by manufacture, adjusted
		Companies	Total	With 20 employees or more		Total	Payroll	Total	Man-hours	Wages	
		(number)	(number)	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)
32	Stone, clay and glass products—Continued										
329	Nonmetallic minerals products...	(NA)	1,748	632	577	100,617	613,811	75,511	153,766	415,331	1,337,569
3291	Abrasive products.....	340	378	149	111	28,170	186,971	18,583	36,695	107,628	416,415
3292	Asbestos products.....	73	124	84	14	19,516	118,024	15,738	32,884	89,766	269,067
3293	Gaskets and insulations.....	282	295	111	90	16,825	94,441	12,684	25,906	62,301	160,734
3295	Minerals, ground or treated...	313	415	97	123	7,330	41,567	5,688	11,749	29,643	102,079
3296	Mineral wool.....	89	123	67	18	14,733	92,347	11,647	24,781	69,089	206,846
3297	Nonclay refractories.....	51	93	68	4	8,572	53,367	6,810	13,485	38,673	129,139
3299	Nonmetallic products, n.e.c....	313	320	56	217	5,471	27,094	4,361	8,266	18,231	53,289
33	Primary metal industries....	(NA)	6,513	3,583	1,916	1,126,536	7,734,129	922,160	1,838,970	5,933,628	15,261,089
331	Steel rolling and finishing.....	(NA)	746	593	56	568,849	4,167,859	466,263	901,989	3,225,011	8,617,266
3312	Blast furnaces and steel mills	161	288	247	14	500,550	3,711,639	412,311	791,364	2,892,006	7,699,535
3313	Electrometallurgical products.	20	36	30	2	10,437	68,880	8,155	16,563	50,767	145,503
3315	Steel wire drawing, etc.....	171	200	133	21	21,280	134,636	16,904	34,367	97,055	253,009
3316	Cold finishing of steel shapes	59	81	68	8	13,700	99,557	10,623	21,833	71,527	223,977
3317	Steel pipe and tube.....	114	141	115	11	22,882	153,147	18,270	37,862	113,656	295,242
332	Iron and steel foundries.....	(NA)	1,487	1,058	440	199,635	1,233,624	170,699	348,180	989,212	1,959,949
3321	Gray iron foundries.....	1,062	1,139	767	396	120,528	730,279	104,239	214,285	596,109	1,168,478
3322	Malleable iron foundries.....	76	81	71	11	22,297	141,967	18,832	38,789	112,670	204,557
3323	Steel foundries.....	222	267	220	33	56,810	361,378	47,628	95,106	280,433	586,914
333	Primary nonferrous metal.....	(NA)	119	109	3	48,789	327,814	39,652	80,832	251,432	1,012,581
3331	Primary copper.....	13	33	33	2	14,949	96,134	12,711	25,846	77,938	285,510
3332	Primary lead.....	6	10	10	-	2,578	14,997	2,125	4,106	11,156	24,876
3333	Primary zinc.....	11	18	18	-	8,065	47,760	6,575	13,245	36,238	98,789
3334	Primary aluminum.....	7	23	22	-	18,133	134,116	14,459	29,487	101,399	499,576
3339	Primary nonferrous metals, n.e.c.....	32	35	26	1	5,064	34,807	3,782	8,148	24,701	103,830
3341	Secondary nonferrous metals.....	406	459	179	174	15,445	96,302	11,336	23,779	60,510	228,190
335	Nonferrous rolling and drawing..	(NA)	748	539	92	167,005	1,094,356	130,419	271,348	793,596	2,127,688
3351	Copper rolling and drawing....	81	112	92	3	38,949	260,320	31,481	65,746	200,171	478,393
3352	Aluminum rolling and drawing..	166	212	153	24	54,263	376,647	42,758	89,867	278,469	721,171
3356	Rolling and drawing, n.e.c....	108	125	67	26	17,375	117,454	12,275	25,367	74,052	250,589
3357	Nonferrous wire drawing, etc..	210	299	227	39	56,418	339,935	43,905	90,368	240,904	677,535
336	Nonferrous foundries.....	(NA)	1,894	679	863	69,243	412,050	58,426	119,804	317,697	656,485
3361	Aluminum castings.....	926	954	321	481	36,216	222,771	30,746	63,432	174,155	343,863
3362	Brass, bronze, copper castings	535	549	193	239	15,341	86,350	12,835	26,052	65,095	144,092
3369	Nonferrous castings, n.e.c....	386	391	165	143	17,686	102,929	14,845	30,320	78,447	168,530
339	Primary metal industries, n.e.c.	(NA)	1,060	426	288	57,570	402,124	45,365	93,038	296,170	658,930
3391	Iron and steel forgings.....	248	272	189	59	36,317	259,793	29,240	58,316	198,272	395,302
3392	Nonferrous forgings.....	32	34	19	8	6,297	47,627	4,612	10,064	32,461	71,378
3399	Primary metal industries, n.e.c.....	695	754	218	221	14,956	94,704	11,513	24,658	65,437	192,250
34	Fabricated metal products...	(NA)	26,975	9,210	13,700	1,082,102	6,387,508	843,795	1,721,034	4,483,688	11,791,081
3411	Metal cans[3].....	99	270	206	23	53,245	377,031	46,110	97,340	311,058	830,515
342	Cutlery, hand tools, hardware...	(NA)	2,022	810	756	136,554	799,483	108,001	221,382	572,588	1,707,558
3421	Cutlery.....	156	161	67	66	11,837	64,281	9,487	19,312	43,896	213,998
3423	Hand and edge tools.....	681	716	255	309	31,480	176,837	24,508	48,716	125,652	364,265
3425	Hand saws and saw blades.....	70	76	42	20	5,095	29,148	3,768	7,721	19,621	65,634
3429	Hardware, n.e.c.....	1,025	1,069	446	361	88,142	529,217	70,238	145,633	383,419	1,063,661
343	Plumbing and heating, except electric.....	(NA)	979	427	294	68,160	391,355	51,379	101,524	263,067	790,263
3431	Metal plumbing fixtures.....	75	81	45	27	11,011	68,162	8,833	17,501	50,373	139,859
3432	Plumbing fittings, brass goods	247	250	102	80	15,129	79,336	12,314	23,988	58,259	154,752
3433	Heating equipment, except electric.....	611	648	280	187	42,020	243,857	30,232	60,035	154,435	495,652
344	Structural metal products[3].....	(NA)	10,199	3,220	4,892	325,470	1,922,670	242,426	490,819	1,281,056	3,219,813
3441	Fabricated structural steel[3]..	1,636	1,718	817	561	85,423	527,220	63,674	127,899	350,337	814,805
3442	Metal doors, sash, and trim...	1,712	1,817	628	665	62,799	324,796	46,645	95,727	206,127	570,370
3443	Boiler shop products[3].....	1,301	1,383	601	562	75,018	465,372	54,629	111,409	310,471	770,064
3444	Sheet metal work.....	3,139	3,250	755	1,763	61,651	373,284	48,041	97,079	264,665	632,384
3446	Architectural metal work.....	1,326	1,334	173	1,002	15,587	86,956	12,474	24,195	60,613	148,763
3449	Miscellaneous metal work, n.e.c.....	649	697	246	339	24,992	145,042	16,963	34,510	88,843	283,427

See footnotes at end of table.

Groups and Industries: 1963 and 1958—Continued

1963--Continued								1958					Code
Value of shipments	Capital expenditures, new[1]			Inventories end of--		Specialization ratio	Coverage ratio	All employees		Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new[1]	
	Total	Structures and additions to plant	Machinery and equipment	1963	1962			Total	Payroll				
($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	(percent)	(percent)	(number)	($1,000)	($1,000)	($1,000)	($1,000)	
[2]2,435,323	98,114	23,723	74,391	376,830	371,840	(NA)	(NA)	91,270	458,936	1,001,730	[2]1,829,522	75,652	329
704,212	15,506	2,562	12,944	115,017	115,182	70	95	23,955	127,912	277,706	490,752	21,098	3291
509,236	12,381	2,613	9,768	82,827	83,202	95	91	21,292	106,411	235,487	453,488	12,837	3292
279,226	8,865	2,849	6,016	40,535	40,939	81	78	13,494	65,078	105,211	188,684	5,699	3293
204,393	11,873	2,559	9,314	23,488	23,485	94	86	8,302	42,277	115,538	219,086	9,486	3295
391,873	37,956	10,225	27,731	32,388	30,125	90	96	11,898	59,109	133,453	240,922	10,405	3296
250,195	9,346	2,316	7,030	71,279	67,809	94	88	8,013	41,167	102,362	177,643	14,933	3297
96,188	2,187	599	1,588	11,296	11,098	86	96	4,316	16,982	31,973	58,947	1,194	3299
[2]35,621,458	1,446,303	386,988	1,059,315	6,057,254	6,014,043	(NA)	(NA)	1,091,927	6,280,469	11,542,204	[2]27,323,600	1,543,695	33
[2]19,146,114	974,367	291,528	682,839	3,612,137	3,652,558	(NA)	(NA)	578,185	3,570,778	6,862,919	[2]15,532,277	1,028,821	331
[2]16,611,083	908,440	277,810	630,630	3,146,552	3,175,474	(NA)	(NA)	511,392	3,183,483	6,062,227	[2]13,422,585	959,033	3312
382,132	13,412	2,572	10,840	93,879	106,211	85-90	77	12,689	71,883	178,880	399,122	16,969	3313
592,263	14,002	3,795	10,207	110,367	113,977	89	30	19,250	110,184	196,200	452,062	11,980	3315
751,627	14,925	1,818	13,107	109,368	110,488	94	20	10,943	67,084	141,516	477,824	25,706	3316
809,009	23,588	5,533	18,055	151,971	146,408	19	37	23,911	138,144	284,096	780,684	15,133	3317
[2]3,173,520	108,938	16,127	92,811	317,985	322,581	(NA)	(NA)	182,033	886,069	1,322,220	[2]2,245,591	59,236	332
1,984,944	64,823	10,202	54,621	192,498	198,475	93	88	112,670	531,152	810,758	1,434,701	32,559	3321
317,528	16,283	1,742	14,541	23,954	25,402	87	87	20,230	100,579	127,592	214,537	4,438	3322
871,048	27,832	4,183	23,649	101,533	98,704	85	89	49,133	254,338	383,870	596,276	22,239	3323
[2]3,094,219	87,439	34,486	52,953	424,709	450,169	(NA)	(NA)	47,247	267,172	708,523	[2]2,292,401	179,791	333
[2]1,245,457	13,134	3,497	9,637	166,368	160,955	(NA)	(NA)	14,722	77,385	166,214	[2]861,087	19,334	3331
[2]265,072	964	115	849	50,016	62,210	(NA)	(NA)	3,563	18,182	36,325	[2]316,934	725	3332
281,537	4,734	1,155	3,579	46,003	56,871	92	81	8,923	44,078	71,653	208,993	13,445	3333
1,089,977	62,172	29,070	33,102	106,479	123,754	100	75	17,381	111,588	383,836	808,822	142,293	3334
212,176	6,435	649	5,786	55,843	46,379	83	39	2,658	15,939	50,495	96,565	3,994	3339
1,045,522	17,891	5,324	12,567	143,083	123,983	94	26	14,441	75,669	147,262	724,013	5,355	3341
[2]6,612,870	191,376	27,213	164,163	1,275,494	1,184,554	(NA)	(NA)	155,679	861,050	1,687,195	[2]4,724,614	226,240	335
1,657,526	43,462	2,776	40,686	218,431	208,685	90	91	40,329	222,259	445,371	1,209,926	44,080	3351
2,196,439	81,282	10,985	70,297	511,902	455,537	85	93	46,879	272,168	537,086	1,562,381	131,817	3352
640,962	22,154	3,367	18,787	205,905	192,684	84	81	16,571	94,713	174,633	486,308	14,984	3356
2,117,943	44,478	10,085	34,393	339,256	327,648	91	86	51,900	271,910	530,105	1,465,999	35,359	3357
[2]1,230,458	30,571	6,280	24,291	102,852	97,594	(NA)	(NA)	62,159	318,666	470,741	[2]877,645	22,336	336
640,193	18,374	3,272	15,102	46,898	44,185	81	83	30,045	158,915	225,686	422,041	12,220	3361
287,534	5,394	1,507	3,887	32,634	31,176	84	78	14,861	70,512	109,744	220,955	5,103	3362
302,731	6,803	1,501	5,302	23,320	22,233	78	75	17,253	89,239	135,311	234,649	5,013	3369
[2]1,318,755	35,721	6,030	29,691	180,994	182,604	(NA)	(NA)	52,183	301,065	443,344	[2]927,136	21,916	339
868,948	17,516	3,268	14,248	125,015	127,545	89	69	37,739	220,542	315,928	687,270	14,268	3391
165,146	4,704	269	4,435	34,304	33,518	69	55	4,649	27,806	36,760	98,694	2,033	3392
284,661	13,501	2,493	11,008	21,675	21,541	93	87	9,795	52,717	90,656	141,172	5,615	3399
[2]23,065,207	570,077	137,737	432,340	3,954,077	3,783,909	(NA)	(NA)	1,060,506	5,425,260	9,439,843	[2]19,230,112	463,594	34
2,075,014	66,507	7,997	58,510	321,722	292,330	97	98	54,238	303,885	668,606	1,824,106	54,346	3411
[2]2,736,858	100,636	24,159	76,477	481,205	449,994	(NA)	(NA)	135,718	656,911	1,202,227	[2]2,054,926	37,827	342
283,352	12,382	3,085	9,297	47,220	41,370	89	97	11,831	52,745	126,310	179,271	2,370	3421
565,590	10,955	1,958	8,997	132,160	126,961	87	84	30,273	142,551	267,316	440,150	8,588	3423
102,782	6,340	3,696	2,644	24,361	21,969	78	85	5,509	28,311	53,658	87,626	1,225	3425
1,785,134	70,959	15,420	55,539	277,464	259,694	91	93	88,105	433,304	754,943	1,347,879	25,644	3429
[2]1,588,515	30,220	7,640	22,580	306,338	299,366	(NA)	(NA)	71,775	357,466	671,914	[2]1,378,076	25,907	343
234,896	5,863	531	5,332	37,380	36,247	84	91	12,432	67,848	118,555	214,872	8,928	3431
333,832	6,542	1,700	4,842	64,736	61,484	90	83	14,663	66,937	120,560	250,326	3,564	3432
1,019,787	17,815	5,409	12,406	204,222	201,635	76	81	44,680	222,681	432,799	912,878	13,415	3433
[2]7,069,942	126,134	38,510	87,624	1,335,876	1,289,720	(NA)	(NA)	340,622	1,805,771	2,962,860	[2]6,603,446	139,038	344
1,916,048	28,162	10,347	17,815	497,896	463,213	86	89	91,252	502,697	821,626	1,901,106	37,698	3441
1,253,814	21,305	5,029	16,276	180,041	177,335	88	94	57,897	273,219	469,050	1,037,371	18,055	3442
1,622,988	32,910	9,359	23,551	319,523	316,752	89	83	90,551	497,146	754,972	1,670,007	45,043	3443
1,303,670	26,180	7,876	18,304	189,123	184,766	88	78	58,800	307,905	516,136	1,077,811	22,339	3444
269,256	6,102	2,084	4,018	39,441	40,481	86	71	42,122	224,804	401,076	917,151	15,903	3446
704,166	11,475	3,815	7,660	109,852	107,173	89	68						3449

TABLE 3. General Statistics for Establishments, by Industry

Code	Industry group and industry	1963									
		Companies	Establishments		Proprietors and partners	All employees		Production workers			Value added by manufacture, adjusted
			Total	With 20 employees or more		Total	Payroll	Total	Man-hours	Wages	
		(number)	(number)	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)
34	Fabricated metal products—Continued										
345	Screw machine products, bolts, etc.	(NA)	2,447	839	1,110	94,527	584,198	74,768	156,772	417,468	1,054,237
3451	Screw machine products	1,861	1,874	516	979	36,909	213,172	30,796	64,270	159,991	358,961
3452	Bolts, nuts, rivets, and washers	504	573	323	131	57,618	371,026	43,972	92,502	257,477	695,276
3461	Metal stampings	2,491	2,574	1,116	848	132,179	772,557	108,336	222,005	567,309	1,368,993
347	Metal services, n.e.c.	(NA)	4,281	953	2,523	65,631	330,614	54,835	109,844	248,728	554,748
3471	Plating and polishing	2,968	3,023	677	1,816	44,962	223,504	37,722	74,846	169,592	370,202
3479	Metal coating, engraving, etc.	1,227	1,258	276	707	20,669	107,110	17,113	34,998	79,136	184,546
3481	Fabricated wire products, n.e.c.	1,464	1,567	557	1,407	55,514	297,626	45,070	92,096	213,329	539,137
349	Fabricated metal products, n.e.c.	(NA)	2,636	1,082	1,847	150,822	911,974	112,870	229,252	609,085	1,725,817
3491	Metal barrels, drums, and pails	95	145	93	46	10,508	66,614	8,480	17,713	49,127	119,617
3492	Safes and vaults	28	32	15	27	3,346	21,782	2,304	4,817	14,041	56,223
3493	Steel springs	91	96	49	61	6,287	41,321	5,110	10,633	31,398	69,305
3494	Valves and pipe fittings	580	646	374	283	80,407	500,009	58,148	116,929	321,239	942,700
3496	Collapsible tubes	18	24	19	6	3,984	18,804	3,540	6,923	14,771	30,562
3497	Metal foil and leaf	56	67	40	24	4,981	32,438	3,733	7,831	21,775	63,486
3498	Fabricated pipe and fittings	328	349	146	248	13,007	79,087	9,346	18,733	51,671	144,598
3499	Fabricated metal products, n.e.c.	1,254	1,277	346	1,152	28,302	151,919	22,209	45,673	105,063	299,326
35	Machinery, except electrical	(NA)	33,703	8,426	26,670	1,459,377	9,570,984	1,045,075	2,151,057	6,209,341	17,310,599
351	Engines and turbines	(NA)	165	102	28	86,604	609,319	61,648	123,929	401,743	1,113,503
3511	Steam engines and turbines	17	22	21	-	30,917	237,519	19,894	38,933	141,738	379,875
3519	Internal combustion engines	120	143	81	28	55,687	371,800	41,754	84,996	260,005	733,628
3522	Farm machinery and equipment	1,481	1,568	558	706	112,614	689,122	84,650	168,911	476,827	1,328,381
353	Construction and like equipment	(NA)	2,259	987	694	210,959	1,381,298	146,753	299,530	873,169	2,732,269
3531	Construction machinery	561	617	305	169	104,520	683,728	76,526	155,267	462,411	1,301,266
3532	Mining machinery and equipment	198	204	93	62	16,910	109,531	11,814	23,289	67,669	215,406
3533	Oil field machinery	373	408	176	137	29,203	184,288	20,114	41,409	113,526	398,152
3534	Elevators and moving stairways	126	142	74	34	12,393	88,389	7,427	15,458	49,634	201,527
3535	Conveyors	428	454	175	160	20,778	140,617	12,642	26,312	74,020	270,475
3536	Hoists, cranes, and monorails	120	120	56	16	9,585	64,301	6,776	13,980	41,433	112,327
3537	Industrial trucks and tractors	304	314	108	116	17,570	110,444	11,454	23,815	64,476	233,116
354	Metalworking machinery	(NA)	8,536	2,063	4,456	259,002	1,841,671	195,609	419,563	1,292,580	3,037,659
3541	Metal-cutting machine tools	784	801	269	357	61,058	438,222	41,008	86,486	272,243	699,341
3542	Metal-forming machine tools	362	366	146	125	22,078	161,669	15,782	34,633	107,381	281,287
3544	Special dies and tools	5,850	5,896	1,133	3,407	90,860	682,739	76,002	169,313	543,033	1,029,338
3545	Machine tool accessories	983	1,038	347	417	46,994	312,799	34,560	72,037	208,086	559,258
3548	Metalworking machinery, n.e.c.	420	435	168	150	38,012	246,242	28,257	57,094	161,837	468,435
355	Special industry machinery	(NA)	3,290	1,202	1,111	171,528	1,094,823	120,027	249,517	679,122	1,917,184
3551	Food products machinery	649	681	279	226	31,684	205,368	21,018	43,276	118,036	380,406
3552	Textile machinery	529	561	216	195	36,004	196,379	26,870	56,145	129,064	314,190
3553	Woodworking machinery	245	249	91	90	12,057	72,928	8,725	17,662	45,877	146,998
3554	Paper industries machinery	204	217	92	49	18,605	130,614	12,914	27,233	82,299	217,475
3555	Printing trades machinery	463	490	136	151	22,952	159,407	16,437	34,269	104,446	285,879
3559	Special industry machines, n.e.c.	1,074	1,092	388	400	50,226	330,127	34,063	70,932	199,400	572,236
356	General industrial machinery	(NA)	3,760	1,205	1,690	233,143	1,542,032	161,869	332,054	962,422	2,812,672
3561	Pumps and compressors	589	642	267	175	61,322	395,769	38,934	80,825	224,721	768,787
3562	Ball and roller bearings	93	125	93	17	52,316	348,700	42,003	85,970	263,022	627,694
3564	Blowers and fans	225	237	97	60	15,244	94,090	10,733	21,616	57,776	180,801
3565	Industrial patterns	1,206	1,209	106	1,008	9,914	75,605	8,685	17,710	64,877	112,587
3566	Power transmission equipment	498	532	272	158	46,670	303,314	34,400	71,101	203,941	555,710
3567	Industrial furnaces and ovens	229	238	93	59	12,118	83,738	6,782	13,963	38,731	143,009
3569	General industry machines, n.e.c.	754	777	277	213	35,559	240,816	20,332	40,869	109,354	424,084

See footnotes at end of table.

Groups and Industries: 1963 and 1958—Continued

1963--Continued								1958					Code
Value of shipments	Capital expenditures, new[1]			Inventories end of--		Special-ization ratio	Cover-age ratio	All employees		Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new[1]	
	Total	Structures and additions to plant	Machinery and equipment	1963	1962			Total	Payroll				
($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	(percent)	(percent)	(number)	($1,000)	($1,000)	($1,000)	($1,000)	
[2]1,807,228	50,107	9,251	40,856	281,002	268,794	(NA)	(NA)	85,106	440,964	754,706	[2]1,305,441	54,929	345
588,981	18,676	3,891	14,785	58,835	54,106	97	90	31,836	154,925	249,975	425,113	11,222	3451
1,218,247	31,431	5,360	26,071	222,167	214,688	92	90	53,270	286,039	504,731	880,328	43,707	3452
2,678,996	64,248	16,054	48,194	360,833	336,751	84	86	125,300	644,217	1,045,220	2,095,409	50,407	3461
[2]839,711	28,688	6,933	21,755	49,554	45,295	(NA)	(NA)	52,151	224,320	362,163	[2]555,505	20,555	347
517,572	20,032	4,814	15,218	22,104	20,461	(NA)	(NA)	36,471	156,274	253,784	359,116	15,877	3471
322,139	8,656	2,119	6,537	27,450	24,834	(NA)	(NA)	15,680	68,046	108,379	196,389	4,678	3479
1,030,876	24,795	6,036	18,759	150,692	150,688	93	65	55,476	261,027	439,940	874,923	18,105	3481
[2]3,238,067	78,742	21,157	57,585	666,855	650,971	(NA)	(NA)	139,344	726,916	1,321,534	[2]2,504,744	62,177	349
303,423	6,412	825	5,587	49,513	49,433	92	86	9,496	53,200	96,171	250,256	5,332	3491
78,012	1,794	774	1,020	15,714	13,300	81	90-95	3,495	15,843	39,537	58,790	683	3492
157,704	1,962	292	1,670	21,061	19,526	91	67	6,758	35,607	54,135	120,525	1,721	3493
1,588,509	38,951	11,262	27,689	385,426	381,082	86	85	76,844	410,225	732,618	1,263,960	34,108	3494
51,027	1,925	415	1,510	5,033	4,954	88	100	3,837	16,118	25,257	44,700	1,572	3496
180,567	6,410	1,164	5,246	28,737	25,122	84	45	3,500	18,709	38,063	96,438	3,296	3497
305,640	5,099	1,197	3,902	69,813	70,374	92	91	15,214	84,015	155,621	329,979	4,103	3498
573,185	16,189	5,228	10,961	91,556	87,180	89	62	20,200	93,199	180,132	340,096	11,362	3499
[2]30,363,095	783,076	170,968	612,118	6,803,006	6,554,398	(NA)	(NA)	1,350,257	7,314,261	12,414,069	[2]22,797,650	699,636	35
[2]2,089,990	54,145	7,939	46,206	455,427	445,141	(NA)	(NA)	97,351	561,405	1,089,086	[2]2,047,577	71,120	351
616,416	19,394	1,671	17,723	176,156	172,965	85	82	45,347	274,589	568,643	961,769	20,492	3511
1,473,574	34,751	6,268	28,483	279,271	272,176	86	85	52,004	286,816	520,443	1,085,808	50,628	3519
2,842,243	64,431	17,006	47,425	669,266	633,879	89	95	108,586	550,998	1,087,836	2,421,873	54,655	3522
[2]5,260,407	93,175	19,318	73,866	1,245,960	1,212,801	(NA)	(NA)	199,711	1,073,263	2,054,841	[2]4,067,225	88,143	353
2,696,039	56,227	10,753	45,474	671,574	649,567	91	89	95,304	496,751	1,022,801	2,107,352	45,377	3531
417,616	6,847	1,307	5,549	109,415	107,869	75	82	17,808	96,966	165,831	342,035	6,507	3532
666,532	11,321	2,267	9,054	176,761	182,378	90	91	31,878	174,692	336,788	585,268	18,341	3533
318,616	3,315	880	2,435	65,980	70,965	92	95	9,626	55,657	126,270	192,806	2,321	3534
494,632	6,125	1,586	4,539	79,282	71,444	82	83	20,789	119,431	192,892	385,714	7,197	3535
220,015	2,644	665	1,979	45,367	39,320	80	70	9,520	53,566	92,759	184,722	5,056	3536
446,957	6,696	1,860	4,836	97,581	91,258	90	81	14,786	76,200	117,500	269,328	3,344	3537
[2]4,474,696	136,713	26,411	110,302	952,791	893,280	(NA)	(NA)	233,523	1,379,556	2,058,049	[2]3,171,530	105,716	354
1,060,818	28,837	5,401	23,436	316,288	288,027	81	88	52,864	300,344	420,961	679,836	18,840	3541
441,419	10,792	2,099	8,693	124,188	118,829	86	79	22,502	132,368	176,021	317,657	11,723	3542
1,388,794	53,343	10,557	42,786	124,789	107,375	93	72	83,308	536,588	780,090	1,060,566	43,242	3544
787,338	22,784	4,215	18,569	171,114	163,906	83	84	41,521	226,949	348,580	511,456	15,277	3545
796,327	20,957	4,139	16,818	216,412	215,143	85	88	33,328	183,307	332,397	602,015	16,634	3548
[2]3,303,290	71,414	17,778	53,636	817,691	792,560	(NA)	(NA)	162,262	853,598	1,339,530	[2]2,427,940	54,025	355
640,507	11,031	3,004	8,027	154,082	156,779	86	87	27,715	152,515	268,639	456,171	7,801	3551
542,684	13,870	2,815	11,055	135,260	132,424	93	94	34,313	154,548	214,199	376,340	8,508	3552
252,762	4,720	1,641	3,079	57,582	47,246	80	83	12,219	63,414	112,936	214,376	6,924	3553
403,925	10,349	3,142	7,207	103,239	93,401	88	90	15,713	89,881	123,758	310,179	4,847	3554
448,398	8,911	1,273	7,638	129,233	121,987	95	93	21,453	119,575	188,881	309,797	8,496	3555
1,015,014	22,533	5,903	16,630	238,295	240,723	83	74	50,849	273,665	431,117	761,077	17,449	3559
[2]4,732,825	124,540	26,177	98,363	986,121	957,301	(NA)	(NA)	211,382	1,143,282	1,935,184	[2]3,427,083	114,806	356
1,419,081	28,417	5,649	22,768	352,147	341,790	85	86	60,042	321,509	542,037	1,114,053	24,678	3561
998,784	39,243	5,806	33,437	219,560	218,913	97	98	46,439	241,160	407,744	649,640	34,303	3562
315,285	6,979	2,730	4,249	53,318	55,251	83	79	15,947	82,457	145,050	271,629	5,569	3564
140,696	3,794	1,333	2,461	8,430	7,078	96	80	8,870	54,746	78,108	98,343	3,214	3565
888,641	26,444	4,067	22,377	190,630	178,486	84	79	41,782	226,101	384,372	630,303	26,842	3566
279,058	4,561	1,969	2,592	38,616	37,611	83	85	10,288	57,394	96,450	204,835	2,853	3567
691,280	15,102	4,623	10,479	123,420	118,172	83	70	28,014	159,915	281,423	458,280	17,347	3569

TABLE 3. General Statistics for Establishments, by Industry

Code	Industry group and industry	1963									
		Companies	Establishments		Proprietors and partners	All employees		Production workers			Value added by manufacture, adjusted
			Total	With 20 employees or more		Total	Payroll	Total	Man-hours	Wages	
		(number)	(number)	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)
35	Machinery, except electrical—Continued										
357	Office machines, n.e.c.	(NA)	515	265	114	137,138	945,221	88,266	177,271	523,704	1,633,690
3571	Computing and related machines	213	248	139	46	96,370	703,231	58,985	119,521	369,459	1,101,484
3572	Typewriters	17	21	16	-	18,023	102,885	13,940	27,076	71,068	243,190
3576	Scales and balances	81	85	35	27	5,765	35,052	3,725	7,678	19,919	64,362
3579	Office machines, n.e.c.	158	161	75	41	16,980	104,053	11,616	22,996	63,258	224,654
358	Service industry machines	(NA)	1,520	642	443	112,569	673,869	77,808	155,962	406,627	1,368,914
3581	Automatic vending machines	148	158	68	44	11,672	64,791	8,442	16,790	40,427	121,365
3582	Commercial laundry equipment	107	115	58	39	6,542	37,929	4,667	9,605	23,462	70,771
3585	Refrigeration machinery	655	698	347	186	72,330	432,583	50,676	101,231	268,304	892,686
3586	Measuring and dispensing pumps	42	43	27	4	6,768	41,732	4,499	8,913	23,155	91,713
3589	Service industry machines, n.e.c.	496	506	142	170	15,257	96,834	9,524	19,423	51,279	192,379
3599	Miscellaneous machinery	12,032	12,090	1,402	8,714	135,820	793,629	108,445	224,320	593,147	1,366,327
36	Electrical machinery	(NA)	9,948	4,722	2,491	1,511,819	9,284,279	1,049,357	2,090,531	5,405,786	17,010,665
361	Electric distribution products	(NA)	1,137	522	267	132,125	822,019	91,840	183,688	484,186	1,534,661
3611	Electric measuring instruments	536	560	209	150	44,715	273,645	30,109	59,905	149,616	505,309
3612	Transformers	144	177	99	43	33,365	209,514	23,640	46,873	129,628	381,514
3613	Switchgear and switchboards	338	400	214	74	54,045	338,860	38,091	76,910	204,942	647,838
362	Electric industrial apparatus	(NA)	1,244	586	220	160,953	1,004,907	116,890	236,294	640,570	1,889,181
3621	Motors and generators	316	384	244	65	94,170	583,225	68,693	140,174	378,790	993,207
3622	Industrial controls	421	427	118	68	32,990	214,597	22,772	44,898	125,418	450,507
3623	Electric welding apparatus	133	149	75	34	9,629	72,113	6,565	14,075	44,617	162,411
3624	Carbon and graphite products	40	53	40	5	10,123	61,984	7,963	16,104	44,068	141,423
3629	Electric industrial goods, n.e.c.	226	231	109	48	14,041	72,988	10,897	21,043	47,677	141,633
363	Household appliances	(NA)	700	339	150	145,855	863,963	116,147	229,001	613,844	2,097,915
3631	Household cooking equipment	77	83	53	15	19,191	111,266	15,149	30,356	75,580	230,285
3632	Household refrigerators	31	34	25	4	43,065	279,977	35,232	69,978	212,228	631,269
3633	Household laundry equipment	31	39	28	3	18,343	115,387	14,738	28,827	85,865	353,863
3634	Electric housewares and fans	286	312	136	67	38,801	188,257	31,053	59,567	126,912	463,845
3635	Household vacuum cleaners	34	34	13	7	5,682	35,524	4,235	8,208	22,670	116,137
3636	Sewing machines	83	86	17	34	7,646	51,962	5,844	12,136	36,303	98,328
3639	Household appliances, n.e.c.	102	112	67	20	13,127	81,590	9,896	19,929	54,286	204,188
364	Lighting and wiring devices	(NA)	1,951	813	643	132,984	709,630	104,508	206,705	487,642	1,559,630
3641	Electric lamps	54	81	50	19	23,404	122,721	20,461	40,256	99,476	362,235
3642	Lighting fixtures	1,203	1,239	480	458	53,866	288,148	42,052	83,284	193,464	587,834
3643	Current carrying devices	431	449	180	144	35,424	175,185	27,239	53,474	115,097	355,643
3644	Noncurrent carrying devices	168	182	103	22	20,290	123,576	14,756	29,691	79,605	253,918
365	Radio and TV receiving equipment	(NA)	515	238	123	90,818	458,905	74,104	143,485	322,263	1,037,342
3651	Radio and TV receiving sets	322	348	178	74	81,264	411,924	66,538	128,463	289,287	911,954
3652	Phonograph records	128	167	60	49	9,554	46,981	7,566	15,022	32,976	125,388
366	Communication equipment	(NA)	1,222	691	189	476,849	3,394,593	269,681	541,828	1,589,412	5,341,463
3661	Telephone; telegraph apparatus	65	90	56	14	89,465	554,375	63,983	122,707	358,741	1,013,792
3662	Radio, TV communications equipment	1,001	1,132	635	175	387,384	2,840,218	205,698	419,121	1,230,671	4,327,671
367	Electronic components	(NA)	2,291	1,150	565	288,527	1,535,747	210,906	417,151	920,686	2,508,117
3671	Electron tubes, receiving type	30	42	22	72	25,850	136,768	20,357	37,670	88,463	250,681
3672	Cathode ray picture tubes	148	151	28	63	10,916	66,888	7,958	16,634	40,468	128,354
3673	Electron tubes, transmitting	45	57	45	5	18,704	129,296	11,631	24,027	72,406	204,614
3674	Semiconductors	86	107	87	3	56,349	320,875	37,548	77,113	168,504	467,035
3679	Electronic components, n.e.c.	1,743	1,934	968	422	176,708	881,920	133,412	261,707	550,845	1,457,433
369	Electrical products, n.e.c.	(NA)	888	383	334	83,708	494,515	65,281	132,379	347,183	1,042,356
3691	Storage batteries	169	252	120	111	17,512	108,700	13,871	28,444	80,237	244,152
3692	Primary batteries, dry and wet	26	46	29	13	8,478	40,602	6,791	13,615	29,029	113,787
3693	X-ray apparatus and tubes	56	58	30	11	6,236	43,796	3,430	6,921	20,124	86,534
3694	Engine electrical equipment	163	182	98	44	40,559	250,202	32,697	66,903	184,438	496,662
3699	Electrical products, n.e.c.	245	350	106	155	10,923	51,215	8,492	16,496	33,355	101,221

See footnotes at end of table.

Groups and Industries: 1963 and 1958—Continued

1963--Continued								1958					
Value of shipments	Capital expenditures, new[1]			Inventories end of--		Special-ization ratio	Cover-age ratio	All employees		Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new[1]	Code
	Total	Structures and additions to plant	Machinery and equipment	1963	1962			Total	Payroll				
($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	(percent)	(percent)	(number)	($1,000)	($1,000)	($1,000)	($1,000)	
[2]2,782,800	119,610	21,555	98,055	832,582	808,695	(NA)	(NA)	121,615	667,480	970,529	[2]1,685,215	84,597	357
2,019,714	92,628	13,486	79,142	653,536	642,545	93	94	80,864	473,455	579,103	1,104,194	61,494	3571
315,385	9,576	1,851	7,725	65,187	57,072	85	99	19,779	84,467	168,877	238,173	9,880	3572
98,491	1,149	97	1,052	24,045	22,394	92	97	5,347	26,574	49,125	78,335	1,406	3576
349,210	16,257	6,121	10,136	89,814	86,684	81	79	15,625	82,984	173,424	264,513	11,817	3579
[2]2,840,545	47,319	14,189	33,131	609,711	579,777	(NA)	(NA)	100,059	508,836	918,151	[2]2,066,488	33,443	358
238,000	3,479	491	2,989	53,968	54,036	81	90	7,894	37,049	64,694	141,635	2,798	3581
136,757	2,487	1,126	1,361	32,697	33,017	91	89	6,560	33,047	65,580	119,499	2,024	3582
[2]1,928,001	33,471	9,838	23,633	417,090	387,771	(NA)	(NA)	67,715	342,169	598,032	[2]1,441,082	23,166	3585
159,487	2,604	484	2,120	37,212	36,307	73	85	6,201	32,852	64,689	119,045	2,238	3586
378,300	5,278	2,250	3,028	68,744	68,646	86	84	11,689	63,719	125,156	245,227	3,217	3589
2,036,299	71,729	20,595	51,134	233,457	230,974	90	90	115,659	575,407	959,939	1,481,295	93,131	3599
[2]29,840,182	701,947	176,031	525,916	5,239,708	5,148,799	(NA)	(NA)	1,140,807	5,755,220	10,624,264	[2]19,547,559	468,039	36
[2]2,565,859	50,548	12,570	37,978	526,724	520,475	(NA)	(NA)	134,395	724,346	1,338,652	[2]2,278,347	51,057	361
749,220	19,207	6,467	12,740	181,276	176,906	84	78	46,923	254,833	419,396	673,522	19,421	3611
722,896	13,161	1,043	12,118	134,874	140,088	92	94	34,601	186,361	364,212	642,267	13,816	3612
1,093,743	18,180	5,060	13,120	210,574	203,481	87	89	52,871	283,152	555,044	962,558	17,820	3613
[2]3,153,942	72,031	14,944	57,087	590,188	593,094	(NA)	(NA)	156,332	819,108	1,447,753	[2]2,437,329	59,787	362
1,709,818	35,804	3,820	31,984	321,517	335,091	81	84	93,541	488,854	813,124	1,392,573	28,311	3621
648,683	15,419	6,219	9,200	118,887	110,383	79	79	27,150	145,270	281,890	413,163	7,611	3622
330,227	5,364	1,382	3,982	56,666	56,075	93	89	9,895	60,761	112,709	247,739	4,330	3623
226,889	11,441	2,367	9,074	50,228	51,457	93	96	8,904	45,628	102,483	154,925	11,068	3624
238,325	4,003	1,156	2,847	42,890	40,088	80	72	16,842	78,595	137,547	228,929	8,467	3629
[2]4,118,406	71,252	14,026	57,226	716,085	625,091	(NA)	(NA)	142,951	731,626	1,548,808	[2]3,295,256	43,038	363
473,453	8,216	2,738	5,478	84,918	73,214	87	72	18,152	89,239	181,091	364,852	4,002	3631
1,306,539	21,765	2,744	19,021	208,619	179,827	66	99	41,493	221,439	433,369	1,002,302	9,870	3632
760,161	9,217	1,485	7,732	110,827	100,539	89	87	24,597	134,263	324,480	738,920	7,219	3633
850,281	17,009	2,512	14,497	159,772	143,762	87	81	29,150	128,850	301,033	559,090	9,985	3634
175,357	5,739	2,865	2,874	30,087	22,674	87	80	5,330	29,863	84,180	142,020	2,217	3635
117,157	2,568	604	1,964	63,738	51,500	90-95	96	9,607	48,314	61,991	109,314	5,380	3636
435,458	6,738	1,078	5,661	58,124	53,575	79	79	14,622	79,658	162,664	378,758	4,365	3639
[2]2,829,032	62,104	15,292	46,812	421,910	417,766	(NA)	(NA)	124,218	568,485	1,183,319	[2]2,159,178	42,296	364
574,522	17,040	4,124	12,916	63,744	69,167	95	96	21,495	95,298	270,498	417,516	8,276	3641
1,159,497	23,072	7,751	15,321	157,100	147,258	93	93	47,309	215,829	397,378	826,595	14,415	3642
615,980	14,119	2,479	11,640	99,549	102,326	80	83	35,692	155,976	300,836	501,309	9,629	3643
479,033	7,873	938	6,935	101,517	99,015	77	80	19,722	101,382	214,607	413,758	9,976	3644
[2]2,435,051	39,215	14,756	24,459	401,233	335,241	(NA)	(NA)	73,926	326,045	687,032	[2]1,696,737	17,334	365
2,254,878	30,511	12,056	18,455	381,381	314,841	91	96	66,505	292,664	593,953	1,548,006	13,323	3651
180,173	8,704	2,700	6,004	19,852	20,400	99	97	7,421	33,381	93,079	148,731	4,011	3652
[2]8,821,958	193,861	49,495	144,366	1,663,346	1,724,531	(NA)	(NA)	234,411	1,250,395	2,273,772	[2]3,802,400	150,647	366
[2]1,736,358	55,127	5,472	49,655	331,398	356,497	95	95	80,061	430,739	715,511	[2]1,207,955	102,810	3661
7,145,600	138,734	44,023	94,711	1,331,948	1,368,034	88	91	139,885	819,656	1,405,520	2,594,445	47,837	3662
[2]3,909,772	175,943	46,467	129,476	660,914	665,241	(NA)	(NA)	197,910	853,803	1,433,885	[2]2,245,936	74,220	367
321,091	5,596	1,025	4,571	53,327	48,158	89	95	36,968	149,540	285,799	382,526	11,514	3671
269,122	16,138	2,254	13,884	23,237	20,720	85-90	90	8,554	38,092	67,472	159,252	1,794	3672
299,527	13,262	3,263	9,999	74,176	75,800	80	75	20,146	102,150	165,803	258,474	9,021	3673
687,817	52,439	14,023	38,416	118,192	142,985	88	92	132,242	564,021	914,811	1,445,684	51,891	3674
2,332,215	88,508	25,902	62,606	391,982	377,578	89	78						3679
[2]1,946,162	36,993	8,481	28,512	259,308	267,360	(NA)	(NA)	76,664	376,997	711,043	[2]1,374,204	21,350	369
516,457	11,968	3,460	8,508	75,138	72,900	98	99	14,924	76,961	150,061	368,993	7,330	3691
195,298	4,132	1,173	2,959	29,986	29,464	96	91	8,096	34,025	75,431	138,215	2,343	3692
143,706	2,132	579	1,553	30,036	30,274	83	80	5,258	30,686	58,436	95,090	1,371	3693
900,663	15,490	3,009	12,481	99,818	109,644	93	81	38,127	195,983	353,534	606,518	8,942	3694
190,038	3,271	260	3,011	24,330	25,078	90	49	10,259	39,342	73,581	165,388	1,364	3699

TABLE 3. General Statistics for Establishments, by Industry

Code	Industry group and industry	1963									
		Companies	Establishments		Proprietors and partners	All employees		Production workers			Value added by manufacture, adjusted
			Total	With 20 employees or more		Total	Payroll	Total	Man-hours	Wages	
		(number)	(number)	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)
37	Transportation equipment....	(NA)	7,196	2,868	3,169	1,601,158	11,858,240	1,150,082	2,450,150	7,731,192	22,765,674
371	Motor vehicles and equipment....	(NA)	2,765	1,222	1,067	693,821	5,193,447	571,026	1,264,399	4,069,698	12,780,577
3713	Truck and bus bodies.....	594	610	208	335	24,466	133,300	19,729	40,897	98,359	229,472
3715	Truck trailers.....	175	197	105	68	19,429	112,876	15,455	30,896	81,703	205,475
3717	Motor vehicles and parts.....	1,655	1,958	909	664	649,926	4,947,271	535,842	1,192,606	3,889,636	12,345,630
372	Aircraft and parts.....	(NA)	1,346	715	419	679,385	5,253,685	390,295	810,454	2,585,997	7,867,349
3721	Aircraft.....	82	100	65	13	302,201	2,369,416	166,744	342,120	1,097,103	[8]3,542,695
3722	Aircraft engines and parts....	194	232	172	35	190,834	1,486,081	105,890	222,000	705,727	2,244,317
3723	Aircraft propellers and parts.	13	14	8	2	11,183	78,712	6,231	13,515	37,666	113,433
3729	Aircraft equipment, n.e.c.....	935	1,000	470	369	175,167	1,319,476	111,430	232,819	745,501	1,966,904
373	Ship and boat building.....	(NA)	1,960	468	1,240	139,510	898,439	117,394	235,523	701,693	1,192,749
3731	Ship building and repairing...	305	334	200	92	114,649	782,299	96,527	193,512	610,250	[8]1,009,690
3732	Boat building and repairing...	1,596	1,626	268	1,148	24,861	116,140	20,867	42,011	91,443	183,059
374	Railroad equipment.....	(NA)	102	70	14	45,079	301,695	34,902	68,049	217,540	541,471
3741	Locomotives and parts.....	23	24	12	7	14,337	99,696	10,648	20,803	67,405	186,241
3742	Railroad and street cars.....	68	78	58	7	30,742	201,999	24,254	47,246	150,135	355,230
3751	Motorcycles, bicycles, and parts	85	88	33	13	9,662	48,425	7,912	15,152	34,398	82,245
379	Transportation equipment, n.e.c.	(NA)	935	360	416	33,701	162,549	28,553	56,573	121,866	301,283
3791	Trailer coaches.....	348	413	252	139	25,669	125,002	21,901	43,390	94,078	232,460
3799	Transportation equipment, n.e.c.....	507	522	108	277	8,032	37,547	6,652	13,183	27,788	68,823
38	Instruments and related products.....	(NA)	3,949	1,343	1,410	305,452	1,912,472	208,448	416,555	1,100,718	3,992,131
3811	Scientific instruments.....	751	594	213	188	33,084	208,171	22,184	44,584	119,836	358,588
382	Mechanical measuring devices....	(NA)	774	312	223	94,038	581,175	62,682	126,969	344,980	1,111,620
3821	Mechanical measuring devices..	510	670	258	207	62,353	388,874	40,383	81,510	222,826	732,529
3822	Automatic temperature controls	89	104	54	16	31,685	192,301	22,299	45,459	122,154	379,091
3831	Optical instruments and lenses..	272	280	79	112	11,924	79,131	8,306	16,728	47,149	131,917
384	Medical instruments and supplies	(NA)	1,314	345	546	51,420	291,212	36,276	72,031	165,454	634,705
3841	Surgical and medical instruments.....	256	294	117	79	15,145	83,332	11,538	22,916	52,520	168,556
3842	Surgical appliances and supplies.....	525	704	162	315	28,267	161,800	18,987	37,904	85,790	370,273
3843	Dental equipment and supplies.	267	316	66	152	8,008	46,080	5,751	11,211	27,144	95,876
3851	Ophthalmic goods.....	211	229	109	70	20,296	96,361	16,467	32,771	68,954	177,898
3861	Photographic equipment.....	499	538	187	181	64,937	498,828	39,248	77,753	251,566	1,270,132
387	Watches, clocks, and watchcases.		220	98	90	29,753	157,594	23,285	45,719	102,779	307,271
3871	Watches and clocks.....	150	167	76	72	27,047	144,179	20,983	41,171	92,404	288,053
3872	Watchcases.....	51	53	22	18	2,706	13,415	2,302	4,548	10,375	19,218
39	Miscellaneous manufacturing.	(NA)	14,723	3,618	8,397	390,760	1,812,104	315,017	613,227	1,253,518	3,562,361
391	Jewelry and silverware.....	(NA)	2,193	387	1,422	43,151	225,659	33,506	67,690	154,112	415,747
3911	Jewelry, precious metal.....	1,428	1,438	218	929	23,551	125,610	17,455	35,601	79,251	234,925
3912	Jewelers' findings and materials.....	288	228	67	107	4,816	20,836	3,924	7,684	14,001	33,958
3913	Lapidary work.....	318	318	15	307	1,535	8,289	1,239	2,265	6,085	16,129
3914	Silverware and plated ware....	201	209	87	79	13,249	70,924	10,888	22,140	54,775	130,735
3931	Musical instruments and parts...	288	320	126	133	20,095	103,029	16,664	33,600	76,471	179,035
394	Toys and sporting goods.....	(NA)	2,690	887	1,314	113,133	460,948	94,275	179,084	324,575	978,485
3941	Games and toys.....	767	797	351	303	51,835	206,744	44,031	84,425	145,243	444,101
3942	Dolls.....	404	410	160	213	16,213	58,991	13,934	24,361	41,751	138,100
3943	Children's vehicles.....	60	64	31	17	4,542	19,436	3,796	7,595	14,275	35,304
3949	Sporting and athletic goods...	1,361	1,419	345	781	40,543	175,777	32,514	62,703	123,306	360,980
395	Pens, pencils and office supplies.....	(NA)	1,001	266	531	31,594	159,759	23,161	46,096	94,916	337,725
3951	Pens and mechanical pencils...	122	139	67	40	11,562	54,968	9,065	17,937	33,944	119,069
3952	Lead pencils and art goods....	140	144	57	63	6,868	31,944	5,020	9,831	18,394	64,731
3953	Marking devices.....	581	616	90	409	7,625	41,367	5,257	10,657	24,950	85,572
3955	Carbon paper and inked ribbons	91	102	52	19	5,539	31,480	3,819	7,671	17,628	68,353

See footnotes at end of table.

Groups and Industries: 1963 and 1958—Continued

1963--Continued								1958					Code
Value of shipments	Capital expenditures, new [1]			Inventories end of--		Special-ization ratio	Cover-age ratio	All employees		Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new [1]	
	Total	Structures and additions to plant	Machinery and equipment	1963	1962			Total	Payroll				
($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	(percent)	(percent)	(number)	($1,000)	($1,000)	($1,000)	($1,000)	
[2]55,428,194	1,022,004	273,140	748,864	7,048,765	6,553,226	(NA)	(NA)	1,562,429	9,185,696	15,315,289	[2]38,289,301	629,621	37
[2]37,173,401	655,374	144,982	510,392	2,627,239	2,480,091	(NA)	(NA)	581,715	3,338,689	6,781,258	[2]21,472,552	342,767	371
476,733	6,554	3,064	3,490	74,333	67,754	88	86	20,009	91,374	145,608	307,769	3,627	3713
515,661	5,265	1,189	4,076	82,091	82,140	92	93	15,669	78,142	131,140	334,724	5,072	3715
[2]36,181,007	643,555	140,729	502,826	2,470,815	2,330,197	97	98	546,037	3,169,173	6,504,510	[2]20,830,059	334,068	3717
[2]13,776,419	294,163	102,372	191,791	3,603,427	3,253,414	(NA)	(NA)	765,482	4,720,050	6,924,338	[2]13,216,499	206,148	372
[8]6,316,531	114,658	40,662	73,996	2,437,713	2,026,900	69	96	377,383	2,340,306	[8]3,399,163	[8]6,438,067	94,167	3721
4,100,520	111,529	45,506	66,023	607,359	614,502	87	93	159,094	999,237	1,615,671	3,512,073	55,883	3722
190,761	6,045	401	5,644	33,042	41,580	48	81	15,505	85,635	112,301	235,270	5,107	3723
3,168,607	61,931	15,803	46,128	525,313	570,432	75	59	213,500	1,294,872	1,797,203	3,031,089	50,991	3729
[2]2,039,973	37,949	15,814	22,135	422,697	459,793	(NA)	(NA)	144,561	773,847	1,071,822	[2]1,954,663	54,073	373
[8]1,679,765	24,477	10,141	14,336	344,057	387,297	92	99	119,147	669,826	[8]913,687	[8]1,625,624	38,737	3731
360,208	13,472	5,673	7,799	78,640	72,496	97	95	25,295	103,603	157,309	329,009	15,298	3732
[2]1,365,056	18,072	3,423	14,649	270,006	241,409	(NA)	(NA)	39,591	222,399	319,662	[2]969,730	13,910	374
437,872	7,195	694	6,501	83,784	86,112	83	90	15,282	90,097	152,086	407,540	5,275	3741
927,184	10,877	2,729	8,148	186,222	155,297	91	93	24,309	132,302	167,576	562,190	8,635	3742
192,851	3,152	540	2,612	36,006	34,852	83	93	7,578	33,020	52,125	121,527	2,549	3751
[2]880,494	13,294	6,009	7,285	89,390	83,667	(NA)	(NA)	23,478	97,577	165,898	[2]553,864	10,156	379
713,119	9,584	4,820	4,764	63,118	59,003	98	99	18,717	77,129	127,683	461,053	7,726	3791
167,375	3,710	1,189	2,521	26,272	24,664	89	75	4,761	20,448	38,215	92,811	2,430	3799
[2]6,117,889	191,865	52,324	139,541	1,177,942	1,121,632	(NA)	(NA)	286,351	1,509,525	2,781,017	[2]4,418,690	114,608	38
553,920	16,244	6,219	10,025	122,106	115,571	84	56	57,249	330,209	481,166	752,542	16,580	3811
[2]1,670,774	41,437	13,362	28,075	367,296	348,811	(NA)	(NA)	75,562	387,462	716,095	[2]1,086,253	24,204	382
1,143,416	30,914	11,914	19,000	256,524	250,064	90	83	50,049	258,488	457,126	726,823	18,215	3821
527,358	10,523	1,448	9,075	110,772	98,747	82	95	25,513	128,974	258,969	359,430	5,989	3822
196,022	6,163	2,140	4,023	42,960	40,151	90	61	7,184	37,586	60,387	102,966	3,438	3831
[2]1,028,485	31,080	10,260	20,820	187,954	175,393	(NA)	(NA)	41,714	194,520	414,367	[2]707,990	13,439	384
284,014	10,514	3,253	7,261	54,096	47,279	88	74	10,293	44,878	85,153	130,477	2,812	3841
596,666	17,831	6,375	11,456	100,187	95,290	80	90	24,179	114,867	257,640	461,846	9,110	3842
147,805	2,735	632	2,103	33,671	32,824	94	92	7,242	34,775	71,574	115,667	1,517	3843
272,687	9,085	851	8,234	72,663	70,683	86	92	18,223	71,465	136,696	194,446	5,367	3851
1,851,213	78,626	17,859	60,767	289,511	279,302	95	97	60,262	368,970	788,750	1,204,905	46,770	3861
[2]544,788	9,230	1,633	7,597	95,452	91,721	(NA)	(NA)	26,157	119,313	183,556	[2]369,588	4,810	387
511,168	8,730	1,621	7,109	89,535	84,877	82	95	23,505	106,739	165,158	334,928	4,607	3871
33,620	500	12	488	5,917	6,844	86	97	2,652	12,574	18,398	34,660	203	3872
[2]6,494,830	131,033	34,101	96,937	1,115,703	1,076,627	(NA)	(NA)	364,613	1,467,379	2,678,314	[2]4,965,475	110.585	39
[2]857,869	8,115	1,994	6,121	193,682	189,989	(NA)	(NA)	41,179	181,893	317,699	[2]621,209	6,829	391
481,943	3,676	1,112	2,564	105,295	99,797	92	97	21,196	95,134	166,579	327,251	3,461	3911
72,833	1,308	516	792	12,486	12,448	92	89	4,227	16,380	26,787	57,475	637	3912
65,094	393	39	354	15,273	18,652	93	81	1,904	8,061	14,605	40,428	253	3913
237,999	2,738	327	2,411	60,628	59,092	95	98	13,852	62,318	109,728	196,055	2,478	3914
314,407	5,779	2,551	3,228	63,719	55,295	97	92	16,103	74,650	120,935	236,750	4,561	3931
[2]1,826,798	51,151	13,501	37,655	349,206	334,249	(NA)	(NA)	98,704	361,811	711,798	[2]1,354,276	37,919	394
796,631	27,728	6,391	21,337	135,267	124,625	92	91	42,972	149,725	288,863	544,056	16,513	3941
247,942	6,276	1,823	4,453	27,186	21,270	80-85	87	13,860	43,984	77,149	161,924	5,469	3942
77,507	1,858	95	1,763	11,692	12,692	71	65	4,708	19,625	31,727	70,438	831	3943
704,718	15,289	5,192	10,102	175,061	175,662	93	91	37,164	148,477	314,059	577,815	15,106	3949
[2]589,452	10,143	1,123	9,020	91,289	89,634	(NA)	(NA)	29,131	124,428	236,997	[2]434,709	9,892	395
185,464	4,068	205	3,863	29,476	27,845	90	93	11,179	45,856	90,197	150,279	3,829	3951
121,630	1,594	281	1,313	26,369	26,177	87	90	6,687	26,183	47,909	98,494	2,049	3952
126,845	2,204	380	1,824	12,119	11,596	84	90	5,447	24,775	39,940	59,923	1,360	3953
155,513	2,277	257	2,020	23,325	24,016	95	83	5,818	27,614	58,951	126,013	2,654	3955

TABLE 3. General Statistics for Establishments, by Industry

Code	Industry group and industry	1963									
		Companies	Establishments		Proprietors and partners	All employees		Production workers			Value added by manufacture, adjusted
			Total	With 20 employees or more		Total	Payroll	Total	Man-hours	Wages	
		(number)	(number)	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)
39	Miscellaneous manufacturing—Continued										
396	Costume jewelry and notions	(NA)	1,929	492	1,110	52,483	214,061	43,894	83,919	152,518	414,812
3961	Costume jewelry	910	912	204	552	21,655	85,268	18,225	34,535	59,760	150,999
3962	Artificial flowers	367	384	70	249	4,958	16,338	4,266	7,609	12,113	29,194
3963	Buttons	282	290	69	174	5,599	23,024	4,728	9,133	16,520	43,751
3964	Needles, pins, and fasteners	314	343	149	135	20,271	89,431	16,675	32,642	64,125	190,868
398 399	Miscellaneous manufactures	(NA)	6,590	1,460	3,887	130,304	648,648	103,517	202,838	450,926	1,236,557
3981	Brooms and brushes	628	643	167	421	16,637	73,620	13,428	25,801	49,510	167,866
3982	Hard surface floor coverings	13	16	13	3	6,192	38,965	4,958	10,099	29,488	118,832
3983	Matches	18	26	23	1	4,647	21,659	3,988	7,790	17,268	38,666
3984	Candles	108	111	32	65	3,167	13,225	2,375	4,553	7,884	26,306
3987	Lamp shades	227	228	48	152	3,583	12,775	3,160	6,002	9,907	20,476
3988	Morticians' goods	581	617	224	271	17,283	86,218	13,545	27,507	58,447	158,422
3992	Furs, dressed and dyes	130	132	26	56	2,577	20,092	2,129	4,113	16,383	30,240
3993	Signs and advertising displays	3,165	3,206	570	2,064	43,476	242,593	33,139	64,837	163,538	407,478
3995	Umbrellas, parasols, and canes	109	112	35	68	2,604	10,151	2,261	4,325	7,416	16,101
3999	Miscellaneous products, n.e.c.	1,479	1,499	322	786	30,138	129,350	24,534	47,811	91,085	252,170
19	Ordnance and accessories[4]	(NA)	258	163	41	245,934	1,956,954	122,891	246,512	788,990	2,882,521
192	Missiles and ammunition, n.e.c.	(NA)	75	63	5	181,486	1,528,011	79,586	159,324	532,846	2,210,586
1925	Complete guided missiles	25	31	29	-	148,908	1,325,803	54,527	110,358	395,184	[8]1,924,812
1929	Ammunition, n.e.c.	38	44	34	5	32,578	202,208	25,059	48,966	137,662	285,774
1931	Tanks and tank components	23	26	19	7	11,307	76,583	7,788	16,234	48,421	148,369
1941	Sighting and fire control equipment	13	13	8	1	9,249	66,949	5,810	11,085	36,639	96,281
1951	Small arms, 30 mm. and under	52	52	23	11	9,995	57,347	7,497	15,085	39,288	88,302
1961	Small arms ammunition	27	31	13	10	8,909	51,895	7,061	14,083	38,099	103,772
1999	Ordnance and accessories, n.e.c.	54	61	37	7	24,988	176,169	15,149	30,701	93,697	235,211
1911	Guns, howitzers and mortars										

Note: The difference between value of shipments and payroll includes, in addition to profits, the cost of all materials used, supplements to wages, depreciation, interest, rent, as well as purchased services such as advertising, legal, accounting, maintenance and repair, and taxes.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1]Includes expenditures for plants in operation and for plants under construction but not yet in operation.

[2]The total value of shipments for industry groups (2- and 3-digit) and a few individual industries (4-digit) include extensive duplication arising from shipments between establishments in the same industry classification.

[3]The 1963 and most of the 1958 figures represent data for establishments located in the conterminous United States, Alaska, and Hawaii. However, when the 1958 figures were previously published they did not include data for Alaska and Hawaii since these areas did not achieve statehood until 1959. If the addition of the 1958 figures for Alaska and Hawaii to the previously published figures for an industry resulted in a disclosure, the Alaska and Hawaii data for "all employees, total" and "value added by manufacture" are not included.

The industries and industry groups for which data for Alaska and Hawaii are not included and the combined employment was in excess of 100 are shown below. The industries with lesser amounts are not listed.

Industry	Total Employment	Industry	Total Employment	Industry	Total Employment
209	250-499	249	100-249	281	100-249
2099	250-499	2499	100-249	29	100-249
2335	500-999	2515	100-249	3411	250-499
		26	500-999	344	250-499
2421	250-499	2611	250-499	3441	100-249
2431	100-249	2661	100-249	3443	100-249

Groups and Industries: 1963 and 1958—Continued

1963--Continued								1958					Code
Value of shipments	Capital expenditures, new[1]			Inventories end of--		Specialization ratio	Coverage ratio	All employees		Value added by manufacture, adjusted	Value of shipments	Capital expenditures, new[1]	
	Total	Structures and additions to plant	Machinery and equipment	1963	1962			Total	Payroll				
($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	($1,000)	(percent)	(percent)	(number)	($1,000)	($1,000)	($1,000)	($1,000)	
[2]760,016	13,029	2,419	10,610	107,352	104,223	(NA)	(NA)	56,274	193,621	338,324	[2]608,217	12,364	396
280,478	3,825	971	2,854	34,176	31,067	95	95	25,286	83,201	138,043	253,809	5,788	3961
60,418	736	223	513	9,610	10,175	97	87	6,770	19,021	34,650	64,969	886	3962
81,835	1,040	262	778	11,798	12,052	96	97	6,462	21,526	37,967	68,609	1,414	3963
337,285	7,428	963	6,465	51,768	50,929	91	92	17,756	69,873	127,664	220,517	4,276	3964
[2]2,146,288	42,816	12,513	30,303	310,455	303,237	(NA)	(NA)	123,174	530,825	952,340	[2]1,710,252	39,020	398 399
321,129	4,394	970	3,424	66,428	65,812	89	93	17,082	64,573	137,496	275,722	3,981	3981
204,112	4,441	343	4,098	29,921	34,960	82	98	7,999	41,924	93,145	181,584	5,443	3982
64,131	1,876	382	1,494	8,914	10,299	95-100	95-100	5,127	21,097	41,776	67,018	942	3983
45,515	773	117	656	8,009	7,527	95	94	2,516	9,268	17,668	33,802	482	3984
37,485	530	49	481	3,127	2,984	96	98	3,895	11,401	18,577	34,066	1,237	3987
290,036	5,455	1,965	3,490	46,395	44,801	95	98	17,362	73,736	128,879	237,773	5,754	3988
42,007	227	42	185	2,662	2,574	98	95	2,696	16,231	24,112	29,152	245	3992
646,772	15,042	5,227	9,815	69,090	62,988	96	95	36,170	173,028	281,168	457,025	13,505	3993
36,630	190	31	159	6,133	6,326	95	98	2,932	10,129	16,602	35,161	114	3995
458,471	9,888	3,387	6,501	69,776	64,966	94	84	27,285	109,053	192,313	358,076	7,317	3999
[2]4,784,047	88,218	25,881	62,337	454,455	467,388	(NA)	(NA)	195,870	1,302,742	1,956,378	[2]3,686,316	74,986	19
[2]3,556,864	56,468	16,435	40,033	196,010	212,897	(NA)	(NA)	119,762	847,482	1,240,048	[2]2,345,155	52,324	192
[8]3,053,863	48,849	13,458	35,391	151,598	159,861	94	69	108,431	788,414	[8]1,153,021	[8]2,206,710	46,137	1925
503,001	7,619	2,977	4,642	44,412	53,036	70	82	11,331	59,068	87,027	138,445	6,187	1929
394,144	5,249	674	4,575	81,967	66,053	95	79	7,069	39,861	63,711	212,372	1,524	1931
156,568	3,631	1,678	1,953	33,648	28,291	57	80	36,432	237,193	360,402	682,580	4,088	1941
133,042	5,123	1,135	3,988	35,983	41,487	95	82	8,010	39,213	51,005	79,107	2,128	1951
192,454	5,478	1,586	3,892	63,540	74,221	(NA)	92	9,049	44,215	82,733	167,446	4,166	1961
350,975	12,269	4,373	7,896	43,307	44,439	78	69	15,548	94,778	158,479	199,656	10,756	1999 1911

[4]Includes data for privately owned and/or operated establishments. Government owned and operated establishments are excluded.

[5]In 1963 and 1958, in addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns reported separately for central administrative offices or auxiliary units which serve the manufacturing establishments of a company (e.g., storage warehouses, power plants, research laboratories, garages, repair shops, etc.), rather than the general public. Separate reports were obtained if these units were at different general locations from the establishments served or if they services more than one manufacturing establishment. The figures shown for these units do not represent a separate industry but rather a balancing total for all manufacturing industries.

[6]Establishments in this industry were requested to report value of production instead of value of shipments. Consequently, the formula for computing value added by manufacture was modified to exclude any change in finished products inventories between the beginning and end of the year.

[7]The 1963 and 1958 data for industries 2861 and 2999 are not strictly comparable. The 1958 figures for industry 2999 include an indeterminable number of establishments that were engaged in the manufacture of wood charcoal briquettes. These establishments are included in industry 2861 in 1963.

[8]Establishments in this industry were requested to report value of work done instead of value of shipments. Consequently the formula for computing value added by manufacture was not adjusted for any inventory change between the beginning and end of the year.

TABLE 4. Selected Statistics on Central Administrative Offices and Auxiliaries, by Major Industry Groups of Establishments Serviced: 1963

Code	Major industry group and central administrative offices and auxiliaries	Establishments (number)	Employees (number)	Total payroll ($1,000)
	All industries, total	5,304	726,477	6,615,494
	Central administrative offices	3,567	515,920	4,740,548
	Research, development, or testing	551	160,348	1,504,696
	Storage (warehouse)	485	11,012	57,344
	All other functions	701	39,197	312,906
20	Food and kindred products	1,066	71,496	596,779
	Central administrative offices	625	60,397	518,842
	Research, development, or testing	40	4,369	35,017
	Storage (warehouse)	113	2,149	12,097
	All other functions	288	4,581	30,823
21	Tobacco products	60	6,511	50,808
	Central administrative offices	37	5,558	45,295
	Research, development, or testing	4	411	3,312
	Storage (warehouse)	17	(d)	(D)
	All other functions	2	(c)	(D)
22	Textile mill products	223	19,924	152,927
	Central administrative offices	163	16,158	132,194
	Research, development, or testing	9	390	2,725
	Storage (warehouse)	21	492	2,098
	All other functions	30	2,884	15,910
23	Apparel and related products	218	11,002	85,750
	Central administrative offices	155	8,604	73,243
	Research, development, or testing	2	(a)	(D)
	Storage (warehouse)	37	1,719	7,693
	All other functions	24	(e)	(D)
24	Lumber and wood products	153	5,579	46,709
	Central administrative offices	131	5,159	44,107
	Research, development, or testing	4	243	1,738
	Storage (warehouse)	11	99	357
	All other functions	7	78	507
25	Furniture and fixtures	57	4,673	40,407
	Central administrative offices	51	4,377	39,503
	Research, development, or testing	2	(c)	(D)
	Storage (warehouse)	2	(b)	(D)
	All other functions	2	(b)	(D)
26	Paper and allied products	191	25,815	238,204
	Central administrative offices	134	22,884	217,321
	Research, development, or testing	25	1,189	9,121
	Storage (warehouse)	17	170	718
	All other functions	15	1,572	11,044
27	Printing and publishing	304	11,850	96,723
	Central administrative offices	224	9,358	76,876
	Research, development, or testing	2	(c)	(D)
	Storage (warehouse)	12	(e)	(D)
	All other functions	66	1,669	15,523
28	Chemicals and allied products	579	115,707	1,043,774
	Central administrative offices	357	73,611	662,904
	Research, development, or testing	136	38,319	343,023
	Storage (warehouse)	48	615	3,736
	All other functions	38	3,162	34,111
29	Petroleum and coal products	217	66,417	629,095
	Central administrative offices	147	52,321	496,525
	Research, development, or testing	32	13,589	128,615
	Storage (warehouse)	20	264	1,585
	All other functions	18	243	2,370
30	Rubber and plastics products, n.e.c.	72	11,757	106,739
	Central administrative offices	50	10,940	99,904
	Research, development, or testing	3	723	(D)
	Storage (warehouse)	16	81	424
	All other functions	3	13	(D)
31	Leather and leather products	73	7,582	50,240
	Central administrative offices	51	6,434	44,901
	Research, development, or testing	3	29	(D)
	Storage (warehouse)	13	894	3,780
	All other functions	6	225	(D)
32	Stone, clay, and glass products	347	28,905	249,970
	Central administrative offices	269	24,954	218,148
	Research, development, or testing	19	3,102	25,399
	Storage (warehouse)	32	150	895
	All other functions	27	699	5,528
33	Primary metal industries	226	40,417	414,847
	Central administrative offices	162	37,033	388,003
	Research, development, or testing	36	2,881	23,630
	Storage (warehouse)	18	385	(D)
	All other functions	10	118	(D)
34	Fabricated metal products	300	28,547	256,468
	Central administrative offices	206	19,784	185,749
	Research, development, or testing	32	4,278	35,487
	Storage (warehouse)	18	230	1,084
	All other functions	44	4,255	34,148
35	Machinery, except electrical	394	61,197	575,598
	Central administrative offices	259	41,698	387,268
	Research, development, or testing	54	15,327	154,784
	Storage (warehouse)	39	607	3,242
	All other functions	42	3,565	30,304
36	Electrical machinery	417	100,359	922,863
	Central administrative offices	250	47,385	434,739
	Research, development, or testing	85	39,439	380,218
	Storage (warehouse)	31	976	5,528
	All other functions	51	12,559	102,378
37	Transportation equipment	214	88,579	877,369
	Central administrative offices	155	52,908	532,354
	Research, development, or testing	40	33,493	329,169
	Storage (warehouse)	6	652	4,302
	All other functions	13	1,526	11,544
38	Instruments and related products	79	10,991	97,951
	Central administrative offices	59	9,544	82,843
	Research, development, or testing	12	1,098	12,495
	Storage (warehouse)	3	227	1,009
	All other functions	5	122	1,604
39	Miscellaneous manufacturing[1]	114	9,169	82,273
	Central administrative offices	82	6,813	59,829
	Research, development, or testing	11	1,080	10,386
	Storage (warehouse)	11	235	1,521
	All other functions	10	1,041	10,537

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

a. Less than 20 employees.
b. 20 to 99 employees.
c. 100 to 249 employees.
d. 250 to 499 employees.
e. 500 to 999 employees.
f. 1,000 to 2,499 employees.
g. 2,500 to 4,999 employees.
h. 5,000 to 9,999 employees.
i. 10,000 to 24,999 employees.

[1]Includes privately owned and/or operated establishments classified in Census major industry group 19, "Ordnance and Accessories." Establishments which are Government owned and operated are not included.

TABLE 5. Detailed Statistics, by Industry Groups: 1963

Item	United States total	Food and kindred products (SIC 20)	Tobacco manufactures (SIC 21)	Textile mill products (SIC 22)	Apparel and related products (SIC 23)	Lumber and wood products (SIC 24)	Furniture and fixtures (SIC 25)
Establishments, total.....number..	306,617	37,521	394	7,104	28,457	36,150	10,478
With 1 to 19 employees.....do....	207,265	23,408	163	2,736	15,446	30,385	7,165
With 20 to 99 employees.....do....	70,243	10,224	106	2,402	9,955	4,785	2,455
With 100 employees or more.....do....	29,109	3,889	125	1,966	3,056	980	858
Proprietors and working partners.....do....	177,429	20,781	149	2,865	17,830	32,567	5,894
All employees (average for the year).....do....	16,234,506	1,643,111	77,330	863,246	1,279,534	563,135	376,548
Payroll (all employees), total for year....$1,000..	93,288,785	8,637,152	330,498	3,385,031	4,423,033	2,338,733	1,726,707
Production workers:							
Average for the year.....number..	12,232,041	1,098,116	68,579	775,330	1,132,859	497,409	314,762
March.....do....	11,996,535	1,015,834	63,902	764,548	1,112,896	471,818	308,849
May.....do....	12,143,872	1,034,145	59,505	775,082	1,117,541	499,059	310,238
August.....do....	12,391,473	1,208,638	74,289	783,552	1,147,120	521,728	318,246
November.....do....	12,400,770	1,117,024	76,817	778,141	1,141,026	507,036	321,713
Man-hours.....1,000..	24,509,450	2,228,013	132,035	1,568,126	2,052,569	978,665	639,698
January-March.....do....	5,966,384	513,080	30,898	383,861	503,373	224,830	154,426
April-June.....do....	6,176,976	533,755	29,725	399,341	514,061	246,184	158,576
July-September.....do....	6,082,304	607,062	34,029	384,890	512,252	257,850	160,174
October-December.....do....	6,284,600	576,988	37,383	400,034	522,883	249,871	166,522
Wages.....$1,000..	62,093,601	5,159,376	271,496	2,768,414	3,482,286	1,943,287	1,289,989
Cost of materials, etc., total.....do....	229,683,800	46,784,435	2,836,288	9,658,696	9,327,317	5,187,039	2,836,179
Materials, parts, containers, and supplies consumed.....do....	204,702,549	42,783,160	2,646,158	8,798,206	7,062,599	4,296,299	2,601,780
Cost of resales.....do....	11,658,295	3,287,285	168,116	248,810	259,467	339,669	159,706
Fuels consumed.....do....	3,422,951	316,131	5,958	88,721	17,867	115,473	16,242
Electric energy:							
Purchased:							
Quantity.....kwh..	331,667	19,473	511	14,632	2,492	4,875	1,762
Cost.....$1,000..	2,963,038	277,281	6,161	136,610	45,304	67,606	29,218
Generated less sold.....kwh..	211,238	24,706	3,144	7,330	11,621	2,023	2,697
Contract work.....$1,000..	6,952,855	124 409	9,895	386,349	1,942,078	367,991	29,233
Value of shipments (including resales), total.....do....	420,528,098	68,466,487	4,519,954	15,740,545	17,096,862	9,200,039	5,884,064
Value of resales.....do....	17,274,426	3,956,971	172,222	300,600	363,598	421,192	207,381
Value added by manufacture, adjusted.....do....	192,103,102	21,825,516	1,680,594	6,122,982	7,861,011	4,020,600	3,068,287
Manufacturers' inventories:							
Beginning of year, total.....do....	58,066,827	6,510,720	2,500,521	2,530,414	2,051,474	1,335,911	791,583
Finished products.....do....	19,873,515	3,709,908	113,317	975,140	912,924	588,752	233,659
Work in process.....do....	17,209,683	410,741	27,807	681,538	384,873	288,535	192,019
Materials, supplies, fuel, etc.....do....	20,983,533	2,390,071	2,359,367	873,736	753,677	458,624	365,911
End of year, total.....do....	59,912,937	6,760,749	2,406,503	2,567,434	2,164,991	1,352,730	827,228
Finished products.....do....	20,446,398	3,785,758	107,614	978,141	993,275	587,903	243,419
Work in process.....do....	18,120,425	439,048	24,735	719,040	395,242	296,984	202,664
Materials, supplies, fuel, etc.....do....	21,346,116	2,535,941	2,274,154	870,254	776,475	467,843	381,145
Expenditures for plant and equipment, total..do....	12,077,417	1,324,526	56,695	428,759	136,671	428,402	122,457
New, total.....do....	11,370,935	1,249,245	53,843	382,414	128,582	394,729	110,180
New structures and additions to plant....do....	2,965,545	336,334	12,100	67,894	31,993	129,710	40,582
New machinery and equipment.....do....	8,405,408	912,911	41,743	314,520	96,589	265,019	69,598
Used plant and equipment.....do....	706,548	75,281	2,852	46,345	8,089	33,679	12,277
Selected operating ratios:							
Payroll/Total employment.....	5,746	5,257	4,274	3,921	3,457	4,153	4,586
Production workers/Total employment.....	.75	.67	.89	.90	.89	.88	.84
Man-hours/Production workers.....	2,004	2,029	1,925	2,023	1,812	1,968	2,032
Production worker wages/Man-hours.....	2.53	2.31	2.06	1.77	1.70	1.99	2.02
Cost of materials and payrolls/Total value of shipments.....	.77	.81	.70	.83	.80	.82	.78
Cost of materials/Total value of shipments.....	.55	.68	.63	.61	.55	.56	.48
Adjusted value added/Total employment.....	11,837	13,283	21,733	7,093	6,144	7,140	8,148
Salaries and wages/Adjusted value added.....	.49	.40	.20	.55	.56	.58	.56

See footnotes at end of table.

TABLE 5. Detailed Statistics, by Industry Groups: 1963–Continued

Item	Paper and allied products (SIC 26)	Printing and publishing (SIC 27)	Chemicals and allied products (SIC 28)	Petroleum and coal products (SIC 29)	Rubber and plastics products, n.e.c. (SIC 30)	Leather and leather products (SIC 31)	Stone, clay and glass products (SIC 32)
Establishments, total.....number..	5,713	38,090	11,996	1,839	5,728	4,047	15,838
With 1 to 19 employees.....do....	2,161	30,875	8,008	1,150	3,279	1,974	11,183
With 20 to 99 employees.....do....	2,019	5,682	2,756	425	1,695	1,135	3,481
With 100 employees or more.....do....	1,533	1,533	1,229	264	754	938	1,174
Proprietors and working partners.....do....	1,113	23,567	2,856	318	1,651	2,345	7,699
All employees (average for the year).....do....	588,014	913,243	737,414	153,486	414,959	327,489	573,859
Payroll (all employees), total for year.....$1,000..	3,508,185	5,514,816	4,969,843	1,133,765	2,364,033	1,227,824	3,212,495
Production workers:							
Average for the year.....number..	467,795	559,843	474,141	109,448	328,785	292,339	455,818
March.....do....	461,893	551,977	471,640	105,821	323,388	293,655	430,299
May.....do....	465,244	558,864	477,321	110,182	328,667	284,735	459,535
August.....do....	473,025	560,050	476,248	113,216	329,729	297,039	474,345
November.....do....	470,314	569,026	471,418	108,513	333,356	293,935	459,437
Man-hours.....1,000..	988,582	1,083,179	963,361	216,679	658,464	543,094	928,948
January-March.....do....	243,551	262,715	232,351	51,858	164,278	135,951	212,852
April-June.....do....	247,542	271,832	246,431	55,235	166,217	132,994	237,746
July-September.....do....	246,162	269,513	237,439	55,846	158,937	135,835	243,139
October-December.....do....	251,384	279,119	242,722	53,740	169,032	138,314	235,309
Wages.....$1,000..	2,551,148	3,190,988	2,779,938	745,123	1,672,376	982,096	2,350,223
Cost of materials, etc., total.....do....	9,001,448	5,777,279	14,255,096	14,291,526	4,480,104	2,127,776	5,287,768
Materials, parts, containers, and supplies consumed.....do....	8,268,862	4,067,212	12,152,344	13,185,620	3,844,319	1,924,011	4,235,746
Cost of resales.....do....	227,211	223,412	988,411	670,486	462,615	67,554	435,574
Fuels consumed.....do....	304,540	24,237	479,673	289,475	44,858	12,787	403,301
Electric energy:							
Purchased:							
Quantity.....million kwh.-hrs..	18,373	4,074	93,532	13,981	6,805	880	16,296
Cost.....$1,000..	166,800	66,770	530,645	112,640	83,474	15,904	173,185
Generated less sold.....million kwh.-hrs..	23,762	10,997	21,237	4,640	1,162	621	1,471
Contract work.....$1,000..	34,005	1,395,646	104,025	33,285	44,838	107,520	39,962
Value of shipments (including resales), total.....do....	16,357,102	16,165,744	31,772,722	17,994,742	9,116,230	4,209,614	12,289,091
Value of resales.....do....	276,304	346,001	1,329,495	735,321	584,329	86,733	564,808
Value added by manufacture, adjusted.....do....	7,395,677	10,476,433	17,586,138	3,713,231	4,653,953	2,078,572	7,043,987
Manufacturers' inventories:							
Beginning of year, total.....do....	1,698,554	1,199,039	3,702,178	1,829,302	1,159,641	566,439	1,471,029
Finished products.....do....	573,674	412,737	1,836,667	1,079,509	613,572	216,925	774,805
Work in process.....do....	196,890	282,587	523,374	371,713	186,790	136,184	186,245
Materials, supplies, fuel, etc.....do....	927,952	503,719	1,342,137	378,080	359,279	213,329	509,979
End of year, total.....do....	1,759,327	1,315,098	3,825,760	1,818,020	1,189,924	551,861	1,522,406
Finished products.....do....	616,283	468,231	1,877,874	1,112,667	625,088	215,783	804,464
Work in process.....do....	202,370	314,636	550,679	348,570	193,101	134,060	194,487
Materials, supplies, fuel, etc.....do....	940,684	532,231	1,397,207	356,783	371,735	202,018	523,456
Expenditures for plant and equipment, total...do....	732,305	500,027	1,586,517	422,491	359,586	38,462	641,233
New, total.....do....	708,532	463,904	1,545,689	413,681	343,466	34,566	607,581
New structures and additions to plant.....do....	118,838	111,020	354,876	283,759	58,564	6,257	156,428
New machinery and equipment.....do....	589,694	352,884	1,190,816	129,902	284,902	28,309	451,153
Used plant and equipment.....do....	23,788	36,131	40,846	8,810	16,120	3,896	33,656
Selected operating ratios:							
Payroll/Total employment.....	5,966	6,039	6,740	7,387	5,697	3,749	5,598
Production workers/Total employment.....	.80	.61	.64	.71	.79	.89	.79
Man-hours/Production workers.....	2,113	1,935	2,032	1,980	2,003	1,858	2.04
Production worker wages/Man-hours.....	2.58	2.95	2.89	3.44	2.54	1.81	2.53
Cost of materials and payrolls/Total value of shipments.....	.76	.70	.61	.86	.75	.80	.69
Cost of materials/Total value of shipments.....	.55	.36	.45	.79	.49	.51	.43
Adjusted value added/Total employment.....	12,577	11,472	23,943	24,193	11,215	6,347	12,275
Salaries and wages/Adjusted value added.....	.47	.53	.28	.31	.51	.59	.46

See footnotes at end of table.

TABLE 5. Detailed Statistics, by Industry Groups: 1963--Continued

Item	Primary metal industries (SIC 33)	Fabricated metal products (SIC 34)	Machinery, except electrical (SIC 35)	Electrical machinery (SIC 36)	Transportation equipment (SIC 37)	Instruments and related products (SIC 38)	Miscellaneous manufacturing (SIC 39)	Ordnance and accessories (SIC 19)
Establishments, total.....number..	6,513	26,975	33,703	9,948	7,196	3,949	14,723	258
With 1 to 19 employees.....do....	2,930	17,765	25,277	5,226	4,328	2,606	11,104	95
With 20 to 99 employees.....do....	2,005	6,931	6,137	2,630	1,672	868	2,832	48
With 100 employees or more.....do....	1,578	2,279	2,289	2,092	1,196	475	786	115
Proprietors and working partners.....do....	1,916	13,700	17,956	2,491	3,169	1,410	8,397	41
All employees (average for the year).....do....	1,126,536	1,082,102	1,459,377	1,511,819	1,601,158	305,452	390,760	245,934
Payroll (all employees), total for year....$1,000..	7,734,129	6,387,508	9,570,984	9,284,279	11,858,240	1,912,472	1,812,104	1,956,954
Production workers:								
Average for the year.....number..	922,160	843,795	1,045,075	1,049,357	1,150,082	208,448	315,017	122,891
March.....do....	897,355	819,958	1,042,144	1,047,935	1,168,966	204,765	297,043	126,425
May.....do....	947,080	839,356	1,047,143	1,036,830	1,159,037	206,679	307,438	120,191
August.....do....	942,887	857,477	1,043,738	1,047,495	1,062,841	210,573	324,297	123,111
November.....do....	901,545	859,698	1,051,273	1,065,456	1,209,657	211,537	331,969	121,843
Man-hours.....1,000..	1,838,970	1,721,034	2,151,057	2,090,531	2,450,150	416,555	613,227	246,512
January-March.....do....	448,731	413,228	539,111	528,263	609,426	102,744	143,726	62,131
April-June.....do....	488,207	434,518	549,253	528,992	624,859	104,602	151,757	61,149
July-September.....do....	444,780	429,501	514,305	499,507	575,838	101,063	153,633	60,549
October-December.....do....	457,317	443,821	548,960	533,854	642,299	108,146	164,123	62,779
Wages.....$1,000..	5,933,628	4,483,688	6,209,341	5,405,786	7,731,192	1,100,718	1,253,518	788,990
Cost of materials, etc., total.....do....	20,474,219	11,397,850	13,254,179	12,942,644	32,725,442	2,171,108	2,965,024	1,902,383
Materials, parts, containers, and supplies consumed.....do....	18,345,144	10,003,865	11,536,433	11,708,631	31,205,370	1,821,986	2,555,720	1,659,084
Cost of resales.....do....	495,022	744,382	1,002,705	711,479	529,636	237,872	270,630	128,253
Fuels consumed.....do....	870,929	100,578	104,719	70,926	113,567	16,207	17,188	9,604
Electric energy:								
Purchased:								
Quantity.....million kwh..	76,470	9,301	11,059	12,792	18,924	1,661	1,868	1,906
Cost.....$1,000..	531,309	139,900	153,527	147,178	204,102	23,902	31,346	20,176
Generated less sold.....million kwh..	28,156	12,504	12,185	16,433	13,840	3,733	4,431	4,545
Contract work.....$1,000..	235,030	409,120	456,736	304,423	672,004	71,143	90,123	95,086
Value of shipments (including resales),total...do..	35,621,458	23,065,207	30,363,095	29,840,182	55,428,194	6,117,889	6,494,830	4,784,047
Value of resales.....do..	581,943	965,874	1,330,744	927,958	672,042	365,062	413,356	2,672,489
Value added by manufacture, adjusted.....do....	15,261,089	11,791,081	17,310,599	17,010,665	22,765,674	3,992,131	3,562,361	2,882,521
Manufacturers" inventories:								
Beginning of year, total.....do....	6,014,043	3,783,909	6,554,398	5,148,799	6,553,226	1,121,632	1,076,627	467,388
Finished products.....do....	1,722,432	1,093,779	2,017,342	1,358,692	812,470	340,057	451,780	35,374
Work in process.....do....	1,794,362	1,246,973	2,868,816	2,437,313	3,936,877	480,026	264,392	311,628
Materials, supplies, fuel, etc.....do....	2,497,250	1,443,127	1,668,251	1,352,794	1,803,859	301,549	360,454	120,388
End of year, total.....do....	6,057,254	3,954,075	6,803,006	5,239,708	7,048,765	1,177,942	1,115,703	454,455
Finished products.....do....	1,739,440	1,134,996	2,061,684	1,453,815	791,245	348,167	470,726	29,825
Work in process.....do....	1,893,725	1,329,977	3,027,133	2,462,976	4,300,913	518,271	278,179	293,635
Materials, supplies, fuel, etc.....do....	2,424,089	1,489,101	1,714,191	1,322,924	1,956,607	311,504	366,793	130,995
Expenditures for plant and equipment, total..do....	1,498,380	630,985	868,168	750,251	1,115,081	199,387	140,045	96,989
New, total.....do....	1,446,303	570,077	783,076	701,947	1,022,004	191,865	131,033	88,218
New structures and additions to plant....do....	386,988	137,737	170,968	176,031	273,140	52,324	34,101	25,881
New machinery and equipment.....do....	1,059,315	432,340	612,118	525,916	748,864	139,541	96,937	62,337
Used plant and equipment.....do....	52,077	60,907	85,110	48,304	93,077	7,522	9,010	8,771
Selected operating ratios:								
Payroll/Total employment.....	6,865	5,903	6,558	6,141	7,406	6,261	4,637	7,957
Production workers/Total employment.....	.82	.78	.72	.69	.72	.68	.81	.50
Man-hours/Production workers.....	1,994	2,040	2,058	1,992	2,130	1,998	1,947	2,006
Production worker wages/Man-hours.....	3.23	2.61	2.89	2.59	3.16	2.64	2.04	3.20
Cost of materials and payrolls/Total value of shipments.....	.79	.77	.75	.74	.80	.67	.74	.81
Cost of materials/Total value of shipments.....	.57	.49	.44	.43	.59	.35	.46	.40
Adjusted value added/Total employment.....	13,547	10,896	11,862	11,252	14,218	13,070	9,116	11,721
Salaries and wages/Adjusted value added.....	.51	.54	.55	.55	.52	.48	.51	.68

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

TABLE 6. Manufacturing Employment and Payroll for Geographic Areas: 1963, 1958, and 1954

Geographic area	Year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries[1]	
		Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)
United States	1963	16,960,983	99,904,279	16,234,506	93,288,785	726,477	6,615,494
	1958	16,025,219	78,348,893	15,423,112	73,875,152	602,107	4,473,741
	1954	16,098,653	65,866,573	15,645,491	62,962,664	453,162	2,903,909
DIVISION AND STATE							
New England	1963	1,425,148	7,815,096	1,379,388	7,429,914	45,760	385,182
	1958	1,399,515	6,297,729	1,360,321	6,047,620	39,194	250,109
	1954	1,448,467	5,453,854	1,431,298	5,356,130	17,169	97,724
Maine	1963	99,926	438,592	99,212	433,821	714	4,771
	1958	98,262	377,186	97,690	373,155	572	4,031
	1954	104,507	325,048	104,025	322,158	482	2,890
New Hampshire	1963	84,107	378,888	83,363	373,816	744	5,072
	1958	79,469	297,094	78,250	292,559	1,219	4,535
	1954	77,332	246,719	77,071	245,346	261	1,373
Vermont	1963	33,740	168,006	33,456	166,091	284	1,915
	1958	32,495	132,466	32,335	131,712	160	754
	1954	36,112	123,577	35,899	122,829	213	748
Massachusetts	1963	674,023	3,712,418	646,873	3,476,523	27,150	235,895
	1958	680,581	3,070,829	657,897	2,925,482	22,684	145,347
	1954	685,441	2,575,649	677,140	2,528,296	8,301	47,353
Rhode Island	1963	113,940	533,416	112,626	523,218	1,314	10,198
	1958	114,511	453,098	113,416	445,559	1,095	7,539
	1954	125,041	431,889	123,970	425,365	1,071	6,524
Connecticut	1963	419,412	2,583,776	403,858	2,456,445	15,554	127,331
	1958	394,197	1,967,056	380,733	1,879,153	13,464	87,903
	1954	420,034	1,750,972	413,193	1,712,136	6,841	38,836
Middle Atlantic	1963	4,075,173	24,419,747	3,811,498	21,916,839	263,675	2,502,908
	1958	4,112,522	20,470,339	3,881,843	18,679,014	230,679	1,791,325
	1954	4,284,266	17,855,231	4,105,248	16,656,158	179,018	1,199,073
New York	1963	1,853,050	11,289,860	1,708,785	9,878,370	144,265	1,411,490
	1958	1,915,546	9,627,723	1,782,380	8,573,246	133,166	1,054,477
	1954	2,000,717	8,444,256	1,895,982	7,734,388	104,735	709,868
New Jersey	1963	829,201	5,121,254	777,997	4,665,795	51,204	455,459
	1958	794,992	4,066,481	761,916	3,822,892	33,076	243,589
	1954	812,445	3,507,089	787,593	3,352,425	24,852	154,664
Pennsylvania	1963	1,392,922	8,008,633	1,324,716	7,372,674	68,206	635,959
	1958	1,401,984	6,776,135	1,337,547	6,282,876	64,437	493,259
	1954	1,471,104	5,903,886	1,421,673	5,569,345	49,431	334,541
East North Central	1963	4,483,054	29,207,670	4,264,334	27,197,923	218,720	2,009,747
	1958	4,261,428	22,992,178	4,084,360	21,678,590	177,068	1,313,588
	1954	4,598,257	20,893,191	4,458,923	19,997,970	139,334	895,221
Ohio	1963	1,239,515	8,123,609	1,186,087	7,656,551	53,428	467,058
	1958	1,201,031	6,522,547	1,162,276	6,229,228	38,755	293,319
	1954	1,292,195	5,820,988	1,266,510	5,649,600	25,685	171,388
Indiana	1963	609,840	3,794,289	599,870	3,708,500	9,970	85,789
	1958	551,048	2,874,730	544,347	2,826,593	6,701	48,137
	1954	588,408	2,533,375	583,821	2,507,314	4,587	26,061
Illinois	1963	1,210,802	7,557,979	1,151,206	7,020,568	59,596	537,411
	1958	1,189,914	6,224,830	1,139,412	5,864,600	50,502	360,230
	1954	1,222,428	5,420,867	1,177,043	5,134,917	45,385	285,950
Michigan	1963	961,090	6,950,677	878,969	6,147,469	82,121	803,208
	1958	880,014	5,161,162	809,590	4,618,694	70,424	542,468
	1954	1,056,011	5,248,902	1,001,630	4,891,749	54,381	357,153
Wisconsin	1963	461,807	2,781,116	448,202	2,664,835	13,605	116,281
	1958	439,421	2,208,909	428,735	2,139,475	10,686	69,434
	1954	439,215	1,869,059	429,919	1,814,390	9,296	54,669
West North Central	1963	1,014,295	5,894,588	974,825	5,583,773	39,470	310,815
	1958	964,104	4,615,458	932,590	4,407,575	31,514	207,883
	1954	962,040	3,854,696	936,854	3,718,695	25,186	136,001
Minnesota	1963	245,931	1,478,639	230,608	1,356,021	15,323	122,618
	1958	220,788	1,094,805	209,187	1,020,211	11,601	74,594
	1954	208,506	865,254	200,522	822,138	7,984	43,116
Iowa	1963	178,199	1,046,675	(D)	(D)	(D)	(D)
	1958	166,126	812,475	164,499	801,705	1,627	10,770
	1954	163,669	648,361	162,705	643,980	964	4,381
Missouri	1963	391,254	2,235,175	371,733	2,080,807	19,521	154,368
	1958	380,497	1,771,096	364,006	1,659,111	16,491	111,985
	1954	381,873	1,496,742	368,479	1,420,103	13,394	76,639

See footnotes at end of table.

TABLE 6. Manufacturing Employment and Payroll for Geographic Areas: 1963, 1958, and 1954--Continued

Geographic area	Year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries[1]	
		Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)
DIVISION AND STATE—Continued							
West North Central—Continued							
North Dakota	1963	6,507	31,483	(D)	(D)	(D)	(D)
	1958	6,335	26,247	6,324	26,198	11	49
	1954	5,613	19,228	5,604	19,189	9	39
South Dakota	1963	13,234	70,133	13,146	69,449	88	684
	1958	12,901	54,786	12,901	54,786	-	-
	1954	11,543	41,128	11,531	41,096	12	32
Nebraska	1963	64,882	348,034	63,801	339,710	1,081	8,324
	1958	58,627	265,223	57,709	258,991	918	6,232
	1954	59,404	223,500	56,996	213,732	2,408	9,768
Kansas	1963	114,288	684,449	112,785	673,950	1,503	10,499
	1958	118,830	590,826	117,964	586,573	866	4,253
	1954	131,432	560,483	131,017	558,457	415	2,026
South Atlantic	1963	2,125,095	10,005,566	2,068,428	9,498,280	56,667	507,286
	1958	1,884,885	7,255,699	1,844,196	6,943,670	40,689	312,029
	1954	1,777,659	5,696,543	1,745,368	5,480,398	32,291	216,145
Delaware	1963	58,395	429,626	41,248	244,530	17,147	185,096
	1958	57,830	347,603	40,491	191,783	17,339	155,820
	1954	54,530	267,354	39,418	151,269	15,112	116,085
Maryland	1963	263,672	1,549,834	258,568	1,501,109	5,104	48,725
	1958	259,097	1,257,423	256,897	1,241,823	2,200	15,600
	1954	255,447	1,002,037	253,144	987,559	2,303	14,478
District of Columbia	1963	22,147	147,643	21,275	138,784	872	8,859
	1958	21,287	114,004	20,818	109,653	469	4,351
	1954	20,706	92,274	20,399	90,083	307	2,191
Virginia	1963	302,084	1,431,977	295,306	1,377,101	6,778	54,876
	1958	258,136	986,545	251,909	948,960	6,227	37,585
	1954	242,768	776,820	239,733	760,454	3,035	16,366
West Virginia	1963	117,026	700,058	112,764	659,413	4,262	40,645
	1958	116,201	573,837	114,431	560,136	1,770	13,701
	1954	122,390	494,893	118,568	472,560	3,822	22,333
North Carolina	1963	530,646	2,092,075	519,060	2,002,938	11,586	89,137
	1958	461,485	1,488,645	454,939	1,445,574	6,546	43,071
	1954	434,934	1,185,629	430,001	1,157,416	4,933	28,213
South Carolina	1963	261,655	1,046,514	258,495	1,028,012	3,160	18,502
	1958	225,510	732,149	224,549	726,644	961	5,505
	1954	219,923	634,756	219,447	632,209	476	2,547
Georgia	1963	354,023	1,505,556	349,695	1,473,157	4,328	32,399
	1958	314,088	1,074,972	312,350	1,062,498	1,738	12,474
	1954	303,017	853,496	301,290	843,557	1,727	9,939
Florida	1963	215,447	1,102,283	212,017	1,073,236	3,430	29,047
	1958	171,251	680,521	167,812	656,599	3,439	23,922
	1954	123,944	389,284	123,368	385,291	576	3,993
East South Central	1963	891,874	4,149,847	874,459	4,008,370	17,415	141,477
	1958	783,474	3,099,253	767,104	2,991,764	16,370	107,489
	1954	729,538	2,364,543	714,758	2,288,840	14,780	75,703
Kentucky	1963	180,460	959,001	175,625	920,024	4,835	38,977
	1958	162,243	721,421	157,754	693,174	4,489	28,247
	1954	151,113	553,203	146,434	529,206	4,679	23,997
Tennessee	1963	339,108	1,542,227	330,815	1,479,220	8,293	63,007
	1958	282,862	1,103,409	275,790	1,058,364	7,072	45,045
	1954	267,496	882,644	260,599	850,175	6,897	32,469
Alabama	1963	243,800	1,162,409	240,245	1,128,260	3,555	34,149
	1958	229,830	920,009	225,358	887,204	4,472	32,805
	1954	220,077	690,015	217,084	672,109	2,993	17,906
Mississippi	1963	128,506	486,210	127,774	480,866	732	5,344
	1958	108,539	354,414	108,202	353,022	337	1,392
	1954	90,852	238,681	90,641	237,350	211	1,331
West South Central	1963	864,662	4,651,437	838,166	4,427,861	26,496	223,576
	1958	794,846	3,645,669	771,501	3,482,656	23,345	163,013
	1954	730,769	2,778,600	713,363	2,678,358	17,406	100,242
Arkansas	1963	113,658	439,572	112,781	433,446	877	6,126
	1958	88,724	293,043	87,968	288,458	756	4,585
	1954	79,052	221,763	78,391	218,473	661	3,290
Louisiana	1963	139,511	769,410	138,761	763,652	750	5,758
	1958	136,944	621,397	136,377	618,089	567	3,308
	1954	145,250	533,947	144,757	531,639	493	2,308

See footnotes at end of table.

TABLE 6. Manufacturing Employment and Payroll for Geographic Areas: 1963, 1958, and 1954--Continued

Geographic area	Year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries[1]	
		Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)
DIVISION AND STATE—Continued							
West South Central—Continued							
Oklahoma	1963	97,691	551,677	87,259	465,097	10,432	86,580
	1958	91,587	446,358	80,752	367,935	10,835	78,423
	1954	89,257	363,627	79,851	307,902	9,406	55,725
Texas	1963	513,802	2,890,778	499,365	2,765,666	14,437	125,112
	1958	477,591	2,284,871	466,404	2,208,174	11,187	76,697
	1954	417,210	1,659,263	410,364	1,620,344	6,846	38,919
Mountain	1963	283,888	1,706,424	278,929	1,662,724	4,959	43,700
	1958	228,785	1,145,276	(D)	(D)	(D)	(D)
	1954	185,006	737,501	(D)	(D)	(D)	(D)
Montana	1963	20,247	109,271	(D)	(D)	(D)	(D)
	1958	20,315	94,827	20,197	94,090	118	737
	1954	18,519	72,090	18,373	71,289	146	801
Idaho	1963	30,487	162,560	30,136	159,156	351	3,404
	1958	27,582	128,146	27,350	126,380	232	1,766
	1954	24,197	94,221	24,024	92,986	173	1,235
Wyoming	1963	6,797	37,956	(D)	(D)	(D)	(D)
	1958	6,442	31,603	(D)	(D)	(D)	(D)
	1954	6,261	26,890	6,228	26,774	33	116
Colorado	1963	93,722	596,011	91,152	573,834	2,570	22,177
	1958	77,505	404,964	75,542	390,918	1,963	14,046
	1954	64,446	254,754	63,041	247,110	1,405	7,644
New Mexico	1963	15,324	82,011	15,168	79,681	156	2,330
	1958	13,740	59,428	13,643	58,694	97	734
	1954	9,709	32,938	9,603	32,433	106	505
Arizona	1963	57,039	348,185	56,378	342,669	661	5,516
	1958	40,563	213,289	40,282	211,398	281	1,891
	1954	26,210	110,684	26,090	109,868	120	816
Utah	1963	53,504	328,226	52,594	320,163	910	8,063
	1958	37,604	185,924	36,747	181,040	857	4,884
	1954	29,947	120,623	29,364	117,520	583	3,103
Nevada	1963	6,768	42,204	(D)	(D)	(D)	(D)
	1958	5,034	27,095	5,004	26,780	30	315
	1954	5,717	25,301	(D)	(D)	(D)	(D)
Pacific	1963	1,799,103	11,880,636	1,746,182	11,392,677	52,921	487,959
	1958	1,595,031	8,806,116	1,554,238	8,502,402	40,793	303,714
	1954	1,411,108	6,325,658	1,385,611	6,159,508	25,497	166,150
Washington	1963	224,375	1,479,092	221,290	1,454,037	3,085	25,055
	1958	215,004	1,173,263	212,049	1,157,119	2,955	16,144
	1954	194,071	854,093	192,354	842,660	1,717	11,433
Oregon	1963	145,164	819,559	143,140	802,966	2,024	16,593
	1958	133,976	648,614	132,572	639,672	1,404	8,942
	1954	135,309	566,671	134,343	561,580	966	5,091
California	1963	1,398,611	9,433,245	1,351,691	8,994,232	46,920	439,013
	1958	1,217,348	6,876,274	1,181,795	6,601,089	35,553	275,185
	1954	1,053,255	4,807,399	1,030,441	4,657,773	22,814	149,626
Alaska	1963	5,809	39,733	5,793	39,551	16	182
	1958	4,807	25,716	4,807	25,716	-	-
	1954	(NA)	(NA)	4,092	20,365	(NA)	(NA)
Hawaii	1963	25,144	109,007	24,268	101,891	876	7,116
	1958	23,896	82,249	23,015	78,806	881	3,443
	1954	(NA)	(NA)	24,381	77,130	(NA)	(NA)
STANDARD CONSOLIDATED AREAS							
Chicago, Ill.-Northwestern Indiana	1963	958,598	6,194,787	905,032	5,709,430	53,566	485,357
	1958	957,232	5,213,395	911,823	4,881,584	45,409	331,811
	1954	991,642	4,545,600	950,954	4,287,691	40,688	257,909
New York, N.Y.-Northeastern New Jersey	1963	1,779,320	10,767,540	1,625,846	9,279,499	153,474	1,488,041
	1958	1,796,955	9,045,255	1,660,420	7,947,716	136,535	1,097,539
	1954	1,835,339	7,804,905	1,731,977	7,095,016	103,362	709,889
STANDARD METROPOLITAN STATISTICAL AREAS[2]							
Abilene, Tex	1963	3,412	14,183	(D)	(D)	(D)	(D)
	1958	3,586	11,611	(D)	(D)	(D)	(D)
	1954	(NA)	(NA)	2,680	7,935	(NA)	(NA)

See footnotes at end of table.

TABLE 6. Manufacturing Employment and Payroll for Geographic Areas: 1963, 1958, and 1954--Continued

Geographic area	Year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries[1]	
		Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)
STANDARD METROPOLITAN STATISTICAL AREAS[2]--Con.							
Akron, Ohio	1963	90,680	638,865	83,332	578,089	7,348	60,776
	1958	88,572	501,515	84,955	475,981	3,617	25,534
	1954	97,600	445,425	94,944	428,255	[4]2,656	[4]17,170
Albany, Ga	1963	4,724	17,905	4,724	17,905	-	-
	1958	3,307	11,159	3,307	11,159	-	-
	1954	3,138	8,910	3,138	8,910	-	-
Albany-Schenectady-Troy, N.Y.	1963	61,749	394,847	(D)	(D)	(D)	(D)
	1958	71,516	385,042	63,275	324,438	8,241	60,604
	1954	85,492	387,793	79,997	352,697	5,495	35,096
Albuquerque, N. Mex	1963	8,157	47,340	8,157	47,340	-	-
	1958	6,677	32,267	6,613	31,944	64	323
	1954	4,026	14,208	3,929	13,745	97	463
Allentown-Bethlehem-Easton, Pa.-N.J.	1963	93,751	517,947	88,444	463,388	5,307	54,559
	1958	93,907	430,094	88,335	379,423	5,572	50,671
	1954	94,208	354,288	90,265	323,179	3,943	31,109
Altoona, Pa	1963	11,651	53,565	(D)	(D)	(D)	(D)
	1958	10,398	39,583	10,391	39,556	7	27
	1954	8,417	25,939	8,417	25,939	-	-
Amarillo, Tex	1963	4,035	22,005	(D)	(D)	(D)	(D)
	1958	3,701	16,558	3,633	16,121	68	437
	1954	3,228	12,901	3,147	12,429	81	472
Anaheim-Santa Ana-Garden Grove, Calif.	1963	96,885	687,335	93,705	662,841	3,180	24,494
	1958	31,770	175,935	31,161	171,173	609	4,762
	1954	15,755	64,804	15,755	64,804	([5])	([5])
Anderson, Ind	1963	26,201	183,263	(D)	(D)	(D)	(D)
	1958	23,467	123,761	23,467	123,761	-	-
	1954	25,725	114,815	25,725	114,815	-	-
Ann Arbor, Mich	1963	25,827	188,730	25,723	187,842	104	888
	1958	18,074	103,935	17,333	98,940	741	4,995
	1954	21,640	102,875	21,161	99,821	479	3,054
Asheville, N.C	1963	16,450	70,136	(D)	(D)	(D)	(D)
	1958	12,171	43,790	12,161	43,757	10	33
	1954	11,086	35,411	11,071	35,391	15	20
Atlanta, Ga	1963	95,696	538,629	92,739	515,949	2,957	22,680
	1958	83,534	379,717	82,451	371,096	1,083	8,621
	1954	81,966	300,207	80,627	292,915	1,339	7,292
Atlantic City, N.J.	1963	8,740	35,360	(D)	(D)	(D)	(D)
	1958	7,137	23,270	(D)	(D)	(D)	(D)
	1954	6,202	18,428	6,202	18,428	-	-
Augusta, Ga.-S.C.	1963	25,215	135,570	24,628	131,977	587	3,593
	1958	23,064	104,056	22,720	102,657	344	1,399
	1954	27,948	112,821	27,748	112,011	200	810
Austin, Tex	1963	5,855	25,796	(D)	(D)	(D)	(D)
	1958	4,985	18,838	4,884	18,125	101	713
	1954	3,388	11,003	3,388	11,003	-	-
Bakersfield, Calif.	1963	5,844	38,442	5,795	38,125	49	317
	1958	5,514	30,386	5,318	27,617	196	2,769
	1954	3,250	14,637	3,181	14,258	69	379
Baltimore, Md.	1963	190,512	1,184,343	187,475	1,158,319	3,037	26,024
	1958	197,814	1,011,390	195,926	1,000,290	1,888	11,100
	1954	196,138	808,905	194,249	797,160	1,889	11,745
Baton Rouge, La.	1963	15,302	114,855	(D)	(D)	(D)	(D)
	1958	19,033	119,458	19,012	119,313	21	145
	1954	18,909	98,547	18,882	98,399	27	148
Bay City, Mich.	1963	9,630	61,710	9,630	61,710	-	-
	1958	9,315	50,881	9,315	50,881	-	-
	1954	10,691	46,787	10,691	46,787	-	-
Beaumont-Port Arthur, Tex.	1963	32,813	233,912	32,312	229,065	501	4,847
	1958	32,507	195,034	32,077	191,512	430	3,522
	1954	31,030	151,993	30,825	150,639	205	1,354
Billings, Mont.	1963	2,501	15,485	(D)	(D)	(D)	(D)
	1958	2,655	14,161	2,616	13,902	39	259
	1954	(NA)	(NA)	2,410	10,359	(NA)	(NA)
Binghamton, N.Y.-Pa.	1963	41,639	259,012	(D)	(D)	(D)	(D)
	1958	46,477	227,764	(D)	(D)	(D)	(D)
	1954	45,929	176,610	(D)	(D)	(D)	(D)
Birmingham, Ala.	1963	59,358	362,188	57,429	344,403	1,929	17,785
	1958	63,495	335,698	60,450	312,794	3,045	22,904
	1954	60,663	253,862	57,762	236,624	2,901	17,238

See footnotes at end of table.

TABLE 6. Manufacturing Employment and Payroll for Geographic Areas: 1963, 1958, and 1954--Continued

Geographic area	Year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries[1]	
		Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)
STANDARD METROPOLITAN STATISTICAL AREAS[2]—Continued							
Boise City, Idaho	1963	2,845	14,378	(D)	(D)	(D)	(D)
	1958	2,590	11,842	(D)	(D)	(D)	(D)
	1954	(NA)	(NA)	1,976	7,303	(NA)	(NA)
Boston, Mass.	1963	293,248	1,768,835	271,795	1,578,774	21,453	190,061
	1958	301,002	1,514,831	283,129	1,400,251	17,873	114,580
	1954	(3)	(3)	(3)	(3)	(3)	(3)
Bridgeport, Conn.	1963	67,419	419,940	65,837	406,382	1,582	13,558
	1958	64,749	331,762	62,902	319,666	1,847	12,096
	1954	(3)	(3)	(3)	(3)	(3)	(3)
Brockton, Mass.	1963	15,862	72,257	(D)	(D)	(D)	(D)
	1958	15,754	58,797	15,489	57,647	265	1,150
	1954	(3)	(3)	(3)	(3)	(3)	(3)
Brownsville-Harlingen-San Benito, Tex.	1963	4,817	14,894	4,817	14,894	-	-
	1958	4,103	10,889	4,103	10,889	-	-
	1954	(NA)	(NA)	2,977	7,152	(NA)	(NA)
Buffalo, N.Y.	1963	162,942	1,104,607	158,626	1,071,282	4,316	33,325
	1958	173,874	980,689	169,877	954,466	3,997	26,223
	1954	203,357	946,591	200,801	933,873	2,556	12,718
Canton, Ohio	1963	52,962	343,603	50,455	321,976	2,507	21,627
	1958	51,166	269,691	50,489	265,068	677	4,623
	1954	56,925	248,897	56,762	247,442	163	1,455
Cedar Rapids, Iowa	1963	23,758	149,147	(D)	(D)	(D)	(D)
	1958	19,027	98,560	18,859	97,718	168	842
	1954	18,593	75,970	18,457	75,434	136	536
Champaign-Urbana, Ill.	1963	3,304	20,250	(D)	(D)	(D)	(D)
	1958	2,689	12,318	2,428	11,240	261	1,078
	1954	2,446	9,671	2,446	9,671	-	-
Charleston, S.C.	1963	11,036	48,254	(D)	(D)	(D)	(D)
	1958	10,551	37,978	10,530	37,818	21	160
	1954	10,459	29,473	10,410	29,253	[6]49	[6]220
Charleston, W. Va.	1963	21,157	159,589	(D)	(D)	(D)	(D)
	1958	21,140	127,451	20,924	125,891	216	1,560
	1954	23,224	119,049	21,222	107,455	2,002	11,594
Charlotte, N.C.	1963	32,755	152,585	30,932	142,211	1,823	10,374
	1958	27,691	106,681	26,686	100,264	1,005	6,417
	1954	24,488	78,042	23,748	73,055	[4]740	[4]4,987
Chattanooga, Tenn.-Ga.	1963	38,940	193,842	38,600	191,552	340	2,290
	1958	40,911	166,114	40,697	164,878	214	1,236
	1954	43,019	145,186	42,759	143,569	260	1,617
Chicago, Ill.	1963	860,637	5,472,402	808,490	5,000,379	52,147	472,023
	1958	857,238	4,599,875	813,569	4,280,994	43,669	318,881
	1954	889,784	4,058,100	849,438	3,802,346	40,346	255,754
Cincinnati, Ohio-Ky.-Ind.	1963	153,930	988,973	144,437	910,358	9,493	78,615
	1958	156,478	833,318	149,758	784,828	6,720	48,490
	1954	160,766	713,588	157,802	696,340	[4]2,964	[4]17,248
Cleveland, Ohio	1963	280,285	1,908,311	262,641	1,750,817	17,644	157,494
	1958	273,682	1,558,248	259,086	1,447,101	14,596	111,147
	1954	308,105	1,470,131	297,428	1,400,627	[4]10,677	[4]69,504
Colorado Springs, Colo.	1963	3,682	19,717	(D)	(D)	(D)	(D)
	1958	3,316	15,051	(D)	(D)	(D)	(D)
	1954	(NA)	(NA)	2,717	9,363	(NA)	(NA)
Columbia, S.C.	1963	14,465	56,736	(D)	(D)	(D)	(D)
	1958	11,181	34,296	11,168	34,234	13	62
	1954	9,977	26,048	9,971	26,025	6	23
Columbus, Ga.-Ala.	1963	14,333	54,214	14,333	54,214	-	-
	1958	17,105	51,245	17,105	51,245	-	-
	1954	17,913	43,788	17,913	43,788	-	-
Columbus, Ohio	1963	80,239	510,651	78,202	494,134	2,037	16,517
	1958	72,991	381,266	72,141	375,484	850	5,782
	1954	77,116	332,079	76,419	328,031	697	4,048
Corpus Christi, Tex.	1963	7,799	46,593	(D)	(D)	(D)	(D)
	1958	7,661	39,751	7,454	38,172	207	1,579
	1954	6,910	29,328	6,721	28,241	189	1,087
Dallas, Tex.	1963	109,517	616,710	105,701	585,449	3,816	31,261
	1958	95,173	461,616	90,857	432,126	4,316	29,490
	1954	80,462	319,408	77,787	303,582	2,675	15,826

See footnotes at end of table.

TABLE 6. Manufacturing Employment and Payroll for Geographic Areas: 1963, 1958, and 1954--Continued

Geographic area	Year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries[1]	
		Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)
STANDARD METROPOLITAN STATISTICAL AREAS[2]—Continued							
Davenport-Rock Island-Moline, Iowa-Ill.	1963	41,077	272,521	(D)	(D)	(D)	(D)
	1958	39,146	213,741	38,276	205,193	870	8,548
	1954	39,918	173,609	39,181	167,841	[4]737	[4]5,768
Dayton, Ohio	1963	104,129	719,006	101,969	699,166	2,160	19,840
	1958	97,189	552,492	95,192	539,932	1,997	12,560
	1954	107,937	(D)	106,726	(D)	[4]1,211	[4]7,897
Decatur, Ill.	1963	13,984	92,150	(D)	(D)	(D)	(D)
	1958	14,050	71,702	13,983	71,175	67	527
	1954	12,217	53,530	12,184	52,880	33	650
Denver, Colo.	1963	69,539	461,812	67,452	443,471	2,087	18,341
	1958	53,686	286,018	52,084	274,272	1,602	11,746
	1954	43,107	177,589	41,854	170,744	1,253	6,845
Des Moines, Iowa	1963	21,621	135,022	21,373	134,131	248	891
	1958	23,230	119,147	23,004	117,457	226	1,690
	1954	22,524	94,931	22,482	94,592	42	339
Detroit, Mich.	1963	493,913	3,847,165	422,346	3,140,569	71,567	706,596
	1958	467,431	2,972,087	405,035	2,480,281	62,396	491,806
	1954	589,941	3,113,753	538,223	2,773,349	51,718	340,404
Dubuque, Iowa	1963	10,911	70,366	10,911	70,366	-	-
	1958	10,566	55,944	10,416	55,352	150	600
	1954	10,326	42,495	10,322	42,446	4	49
Duluth-Superior, Minn.-Wis.	1963	11,522	60,613	11,486	60,270	36	343
	1958	11,366	56,369	11,290	55,901	76	468
	1954	12,740	49,739	12,724	49,617	16	122
Durham, N.C.	1963	13,088	60,172	(D)	(D)	(D)	(D)
	1958	12,621	46,806	12,453	45,552	168	1,254
	1954	13,213	40,435	13,076	39,598	137	837
El Paso, Tex.	1963	14,916	62,049	(D)	(D)	(D)	(D)
	1958	11,501	43,104	11,205	41,162	296	1,942
	1954	9,465	29,780	9,232	28,534	233	1,246
Erie, Pa.	1963	36,437	220,832	35,739	215,764	698	5,068
	1958	34,858	178,776	34,858	178,776	-	-
	1954	40,647	173,049	40,488	171,969	159	1,080
Eugene, Oreg.	1963	18,250	100,897	(D)	(D)	(D)	(D)
	1958	14,167	68,332	(D)	(D)	(D)	(D)
	1954	(NA)	(NA)	13,980	60,059	(NA)	(NA)
Evansville, Ind.-Ky.	1963	26,203	146,186	(D)	(D)	(D)	(D)
	1958	27,083	128,152	27,068	128,020	15	132
	1954	35,023	144,115	34,962	143,845	[4]61	[4]270
Fall River, Mass.-R.I.	1963	23,444	87,968	(D)	(D)	(D)	(D)
	1958	23,663	74,472	(D)	(D)	(D)	(D)
	1954	27,005	74,066	26,990	73,942	15	124
Fargo-Moorhead, N. Dak.-Minn.	1963	2,283	11,695	2,283	11,695	-	-
	1958	2,702	11,367	2,702	11,367	-	-
	1954	(NA)	(NA)	2,533	9,441	(NA)	(NA)
Fitchburg-Leominster, Mass.	1963	17,485	92,082	(D)	(D)	(D)	(D)
	1958	16,976	74,007	16,902	72,794	74	1,213
	1954	([3])	([3])	([3])	([3])	([3])	([3])
Flint, Mich.	1963	68,875	563,495	68,850	563,303	25	192
	1958	58,802	348,054	58,687	347,356	115	698
	1954	76,618	392,215	76,614	392,174	[4]4	[4]41
Fort Smith, Ark.-Okla.	1963	12,291	47,562	(D)	(D)	(D)	(D)
	1958	9,699	32,369	9,699	32,369	-	-
	1954	6,376	19,472	6,376	19,472	-	-
Fort Lauderdale-Hollywood, Fla.	1963	9,750	43,640	(D)	(D)	(D)	(D)
	1958	6,355	26,344	6,172	25,252	183	1,092
	1954	2,862	9,409	2,862	9,409	-	-
Fort Wayne, Ind.	1963	36,088	247,021	34,050	228,313	2,038	18,708
	1958	33,263	183,524	31,328	168,768	1,935	14,756
	1954	35,187	162,240	33,012	149,898	2,175	12,342
Fort Worth, Tex.	1963	50,534	322,210	49,333	313,167	1,201	9,043
	1958	55,899	289,566	55,344	288,235	555	1,331
	1954	50,075	215,661	49,605	213,912	470	1,749
Fresno, Calif.	1963	14,309	74,969	14,256	74,634	53	335
	1958	12,505	55,282	12,428	54,757	77	525
	1954	12,786	50,923	12,747	50,734	39	189

See footnotes at end of table.

TABLE 6. Manufacturing Employment and Payroll for Geographic Areas: 1963, 1958, and 1954--Continued

Geographic area	Year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries[1]	
		Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)
STANDARD METROPOLITAN STATISTICAL AREAS[2]—Continued							
Gadsden, Ala.	1963	9,649	62,800	9,649	62,800	-	-
	1958	11,714	58,724	11,714	58,724	-	-
	1954	12,760	47,483	12,760	47,483	-	-
Galveston-Texas City, Tex.	1963	9,504	71,552	(D)	(D)	(D)	(D)
	1958	10,930	66,435	10,631	63,842	299	2,593
	1954	10,910	54,437	10,910	54,437	-	-
Gary-Hammond-East Chicago, Ind.	1963	97,961	722,385	96,542	709,051	1,419	13,334
	1958	99,994	613,520	98,254	600,590	1,740	12,930
	1954	101,858	487,500	101,516	485,345	342	2,155
Grand Rapids, Mich.	1963	64,602	393,232	64,320	390,735	282	2,497
	1958	56,480	291,674	56,315	290,599	165	1,075
	1954	63,847	294,305	63,812	293,730	[4]35	[4]575
Great Falls, Mont.	1963	2,880	15,864	(D)	(D)	(D)	(D)
	1958	2,786	13,169	2,786	13,169	-	-
	1954	(NA)	(NA)	2,559	9,914	(NA)	(NA)
Green Bay, Wis.	1963	13,486	81,651	(D)	(D)	(D)	(D)
	1958	12,228	59,998	12,183	59,670	45	328
	1954	11,226	48,055	11,071	47,193	155	862
Greensboro-High Point, N.C.	1963	45,913	195,400	42,956	171,970	2,957	23,430
	1958	41,873	144,077	40,115	132,090	1,758	11,987
	1954	38,588	112,415	37,380	104,332	1,208	8,083
Greenville, S.C.	1963	45,360	177,003	45,029	174,665	331	2,338
	1958	36,777	118,604	36,559	117,170	218	1,434
	1954	32,556	92,440	32,435	91,712	[4]121	[4]728
Hamilton-Middletown, Ohio	1963	26,169	195,109	(D)	(D)	(D)	(D)
	1958	30,932	191,934	29,230	172,475	1,702	19,509
	1954	33,052	164,221	31,764	152,989	1,288	11,232
Harrisburg, Pa.	1963	33,470	165,141	31,439	148,333	2,031	16,808
	1958	33,448	136,955	32,539	130,548	909	6,407
	1954	34,425	114,972	33,889	112,345	[4]536	[4]2,627
Hartford, Conn.	1963	90,177	589,539	(D)	(D)	(D)	(D)
	1958	88,533	458,561	84,289	428,395	4,244	30,166
	1954	([3])	([3])	([3])	([3])	([3])	([3])
Honolulu, Hawaii	1963	17,870	79,512	(D)	(D)	(D)	(D)
	1958	15,990	55,718	15,109	52,275	881	3,443
	1954	(NA)	(NA)	13,700	46,401	(NA)	(NA)
Houston, Tex.	1963	108,585	720,296	102,480	661,887	6,105	58,409
	1958	104,541	579,355	100,510	549,398	4,031	29,957
	1954	89,042	(D)	87,651	(D)	[4]1,391	[4]9,087
Huntington-Ashland, W. Va.-Ky.-Ohio	1963	23,598	145,749	(D)	(D)	(D)	(D)
	1958	22,814	117,879	22,139	113,673	675	4,206
	1954	24,722	100,137	24,178	97,212	544	2,925
Indianapolis, Ind.	1963	115,817	749,221	112,488	721,773	3,329	27,448
	1958	105,633	574,285	104,143	564,318	1,490	9,967
	1954	111,791	499,175	110,877	493,989	[4]914	[4]5,186
Jackson, Mich.	1963	16,501	107,466	15,948	103,025	553	4,441
	1958	14,904	80,972	14,899	80,934	5	38
	1954	15,806	73,628	15,575	72,444	231	1,184
Jackson, Miss.	1963	11,646	50,558	11,502	49,498	144	1,090
	1958	11,155	41,457	11,089	41,084	66	373
	1954	8,904	26,192	8,873	25,849	[4]31	[4]343
Jacksonville, Fla.	1963	20,586	101,755	20,240	99,087	346	2,668
	1958	19,228	77,720	19,091	76,863	137	857
	1954	17,402	58,172	17,343	57,854	59	318
Jersey City, N.J.	1963	109,534	633,432	106,571	611,568	2,963	21,864
	1958	124,348	619,229	120,678	591,645	3,670	27,584
	1954	136,639	590,626	133,063	569,410	3,576	21,216
Johnstown, Pa.	1963	23,023	128,060	(D)	(D)	(D)	(D)
	1958	23,628	110,227	23,462	108,902	166	1,325
	1954	23,431	84,113	23,227	82,667	204	1,446
Kalamazoo, Mich.	1963	25,884	171,135	24,176	154,947	1,708	16,188
	1958	25,063	136,541	24,321	132,016	742	4,525
	1954	24,088	108,806	23,948	108,035	140	771
Kansas City, Mo.-Kans.	1963	111,104	684,504	107,102	654,601	4,002	29,903
	1958	103,084	523,797	100,288	506,465	2,796	17,332
	1954	117,980	513,686	115,611	499,255	[4]2,369	[4]14,431

See footnotes at end of table.

TABLE 6. Manufacturing Employment and Payroll for Geographic Areas: 1963, 1958, and 1954--Continued

Geographic area	Year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries[1]	
		Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)
STANDARD METROPOLITAN STATISTICAL AREAS[2]—Continued							
Kenosha, Wis.	1963	22,516	150,462	(D)	(D)	(D)	(D)
	1958	15,518	84,697	15,436	84,128	82	569
	1954	15,207	66,572	15,113	65,925	94	647
Knoxville, Tenn.	1963	34,854	175,881	34,642	175,141	212	740
	1958	31,133	135,923	31,020	135,533	113	390
	1954	34,002	120,099	33,903	119,668	99	431
Lafayette, La.	1963	1,746	7,582	(D)	(D)	(D)	(D)
	1958	1,675	6,060	(D)	(D)	(D)	(D)
	1954	(NA)	(NA)	1,194	3,316	(NA)	(NA)
Lake Charles, La.	1963	7,859	53,486	(D)	(D)	(D)	(D)
	1958	7,901	45,324	(D)	(D)	(D)	(D)
	1954	(NA)	(NA)	7,468	35,901	(NA)	(NA)
Lancaster, Pa.	1963	47,878	255,079	(D)	(D)	(D)	(D)
	1958	43,905	190,234	42,295	177,311	1,610	12,923
	1954	43,681	157,769	42,545	150,619	1,136	7,150
Lansing, Mich.	1963	28,381	220,003	28,097	217,426	284	2,577
	1958	25,795	150,921	24,739	144,921	1,056	6,000
	1954	33,144	165,948	32,171	160,488	973	5,460
Laredo, Tex.	1963	915	2,659	915	2,659	-	-
	1958	940	2,164	940	2,164	-	-
	1954	856	1,658	844	1,602	12	56
Las Vegas, Nev.	1963	3,852	24,900	3,852	24,900	-	-
	1958	2,416	13,685	2,416	13,685	-	-
	1954	3,109	13,835	3,109	13,835	-	-
Lawrence-Haverhill, Mass.-N.H.	1963	42,020	214,286	(D)	(D)	(D)	(D)
	1958	36,378	149,253	36,108	147,103	270	2,150
	1954	(3)	(3)	(3)	(3)	(3)	(3)
Lawton, Okla.	1963	1,023	4,469	1,023	4,469	-	-
	1958	841	2,894	(D)	(D)	(D)	(D)
	1954	(NA)	(NA)	670	2,108	(NA)	(NA)
Lewiston-Auburn[5], Maine	1963	12,477	48,199	(D)	(D)	(D)	(D)
	1958	13,046	42,456	12,969	41,917	77	539
Lexington, Ky.	1963	10,916	65,658	(D)	(D)	(D)	(D)
	1958	7,798	36,634	7,717	35,767	81	867
	1954	4,420	13,635	4,317	13,156	103	479
Lima, Ohio	1963	14,897	93,337	(D)	(D)	(D)	(D)
	1958	13,543	71,422	13,526	71,274	17	148
	1954	14,722	58,038	14,691	57,831	31	207
Lincoln, Nebr.	1963	9,063	45,556	8,912	44,764	151	792
	1958	8,626	38,882	8,498	38,116	128	766
	1954	8,681	32,342	8,681	32,342	-	-
Little Rock-North Little Rock, Ark.	1963	16,521	67,514	(D)	(D)	(D)	(D)
	1958	13,415	47,467	13,392	47,398	23	69
	1954	11,640	34,008	11,626	33,889	14	119
Lorain-Elyria, Ohio	1963	29,834	214,069	(D)	(D)	(D)	(D)
	1958	24,724	143,544	23,732	137,574	992	5,970
	1954	30,528	138,576	30,096	136,363	432	2,213
Los Angeles-Long Beach, Calif.	1963	745,968	4,939,610	727,964	4,760,295	18,004	179,315
	1958	697,235	3,971,467	681,550	3,849,449	15,685	122,018
	1954	633,528	2,929,803	625,310	2,878,200	[5]8,218	[5]51,603
Louisville, Ky.-Ind.	1963	87,621	542,520	83,920	510,498	3,701	32,022
	1958	86,656	434,586	83,189	412,348	3,467	22,238
	1954	88,158	373,584	84,653	354,192	3,505	19,392
Lowell, Mass.	1963	21,120	102,594	(D)	(D)	(D)	(D)
	1958	19,104	70,503	18,951	69,101	153	1,402
	1954	(3)	(3)	(3)	(3)	(3)	(3)
Lubbock, Tex.	1963	5,441	25,386	(D)	(D)	(D)	(D)
	1958	4,191	17,368	4,191	17,368	-	-
	1954	2,837	10,231	2,818	10,134	19	97
Lynchburg, Va.	1963	18,039	86,854	(D)	(D)	(D)	(D)
	1958	15,756	56,726	15,223	53,926	533	2,800
	1954	13,945	53,094	13,945	53,094	-	-
Macon, Ga.	1963	11,059	48,818	(D)	(D)	(D)	(D)
	1958	10,939	38,482	10,721	37,099	218	1,383
	1954	10,770	31,441	10,542	30,137	228	1,304

See footnotes at end of table.

TABLE 6. Manufacturing Employment and Payroll for Geographic Areas: 1963, 1958, and 1954--Continued

Geographic area	Year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries[1]	
		Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)
STANDARD METROPOLITAN STATISTICAL AREAS[2]—Continued							
Madison, Wis.	1963	13,452	83,101	12,445	75,558	1,007	7,543
	1958	12,367	63,327	11,737	57,983	630	5,344
	1954	13,911	59,423	13,355	55,714	556	3,709
Manchester, N.H.	1963	16,931	71,917	(D)	(D)	(D)	(D)
	1958	18,425	64,914	18,125	63,603	300	1,311
	1954	(3)	(3)	(3)	(3)	(3)	(3)
Memphis, Tenn.-Ark.	1963	47,152	241,367	46,159	233,904	993	7,463
	1958	41,850	178,066	41,280	175,206	570	2,860
	1954	42,971	158,035	42,263	153,897	4708	44,138
Meriden, Conn.	1963	7,355	44,958	(D)	(D)	(D)	(D)
	1958	8,734	43,892	(D)	(D)	(D)	(D)
	1954	(NA)	(NA)	9,496	38,506	(NA)	(NA)
Miami, Fla.	1963	43,245	192,569	42,741	186,834	504	5,735
	1958	36,893	143,097	36,528	140,092	365	3,005
	1954	24,317	80,212	24,229	79,470	88	742
Midland, Tex.	1963	548	3,661	(D)	(D)	(D)	(D)
	1958	492	2,652	(D)	(D)	(D)	(D)
	1954	(NA)	(NA)	421	1,811	(NA)	(NA)
Milwaukee, Wis.	1963	193,845	1,271,922	187,809	1,219,865	6,036	52,057
	1958	189,535	1,041,707	184,979	1,012,098	4,556	29,609
	1954	192,658	886,706	187,930	858,859	44,728	427,847
Minneapolis-St. Paul, Minn.	1963	163,860	1,056,110	149,644	940,967	14,216	115,143
	1958	146,043	766,192	135,136	696,603	10,907	69,589
	1954	143,064	628,064	135,288	586,150	7,776	41,914
Mobile, Ala.	1963	18,551	101,131	(D)	(D)	(D)	(D)
	1958	17,348	82,988	17,267	82,455	81	533
	1954	15,418	56,957	15,381	56,703	437	4254
Monroe, La.	1963	5,723	30,507	(D)	(D)	(D)	(D)
	1958	5,971	26,570	5,971	26,570	-	-
	1954	(NA)	(NA)	5,402	19,951	(NA)	(NA)
Montgomery, Ala.	1963	7,614	30,647	(D)	(D)	(D)	(D)
	1958	7,262	23,086	7,262	23,086	-	-
	1954	6,281	17,753	6,281	17,753	-	-
Muncie, Ind.	1963	16,658	110,070	(D)	(D)	(D)	(D)
	1958	14,968	82,989	14,960	82,924	8	65
	1954	17,459	79,805	17,453	79,788	6	17
Muskegon-Muskegon Heights, Mich.	1963	25,103	163,867	24,853	161,994	250	1,873
	1958	23,504	124,472	23,314	123,206	190	1,266
	1954	25,429	117,311	25,272	116,326	157	985
Nashville, Tenn.	1963	46,519	226,185	45,230	218,735	1,289	7,450
	1958	39,977	166,127	37,916	155,253	2,061	10,874
	1954	35,679	117,483	33,487	110,932	42,192	46,551
New Bedford, Mass.	1963	25,419	105,210	(D)	(D)	(D)	(D)
	1958	26,519	90,833	26,492	90,607	27	226
	1954	(3)	(3)	(3)	(3)	(3)	(3)
New Britain, Conn.	1963	29,813	172,221	(D)	(D)	(D)	(D)
	1958	31,445	149,851	31,445	149,851	-	-
	1954	(3)	(3)	(3)	(3)	(3)	(3)
New Haven, Conn.	1963	42,997	253,124	(D)	(D)	(D)	(D)
	1958	42,527	205,754	42,215	202,201	312	3,553
	1954	(3)	(3)	(3)	(3)	(3)	(3)
New London-Groton-Norwich, Conn.	1963	30,121	209,016	(D)	(D)	(D)	(D)
	1958	23,597	129,084	23,274	125,872	323	3,212
	1954	(3)	(3)	(3)	(3)	(3)	(3)
New Orleans, La.	1963	49,051	282,948	48,770	280,764	281	2,184
	1958	46,922	208,883	46,651	207,217	271	1,666
	1954	54,362	197,460	54,119	196,144	4243	41,316
New York, N.Y.	1963	1,147,203	6,849,851	1,034,044	5,713,787	113,159	1,136,064
	1958	1,183,977	5,876,864	1,074,546	4,984,692	109,431	892,172
	1954	1,203,384	5,037,954	1,120,638	4,453,870	82,746	584,084
Newark, N.J.	1963	250,235	1,613,784	224,565	1,379,399	25,670	234,385
	1958	245,605	1,289,824	226,651	1,155,750	18,954	134,074
	1954	255,504	1,138,598	241,925	1,054,763	13,579	83,835
Newport News-Hampton, Va.	1963	24,651	157,033	(D)	(D)	(D)	(D)
	1958	17,227	88,459	17,110	88,020	117	439
	1954	18,366	80,079	18,255	79,747	111	332

See footnotes at end of table.

TABLE 6. Manufacturing Employment and Payroll for Geographic Areas: 1963, 1958, and 1954--Continued

Geographic area	Year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries[1]	
		Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)
STANDARD METROPOLITAN STATISTICAL AREAS[2]—Continued							
Norfolk-Portsmouth, Va	1963	16,074	82,114	15,756	79,826	318	2,288
	1958	15,202	63,429	14,886	61,420	316	2,009
	1954	15,723	55,306	15,464	54,156	259	1,150
Norwalk, Conn	1963	17,605	109,338	(D)	(D)	(D)	(D)
	1958	14,248	66,655	(D)	(D)	(D)	(D)
	1954	(3)	(3)	(3)	(3)	(3)	(3)
Odessa, Tex	1963	2,216	13,522	(D)	(D)	(D)	(D)
	1958	1,900	10,346	(D)	(D)	(D)	(D)
	1954	(NA)	(NA)	895	3,941	(NA)	(NA)
Ogden, Utah	1963	4,638	28,020	(D)	(D)	(D)	(D)
	1958	4,630	22,806	4,522	22,111	108	695
	1954	3,079	11,712	2,937	11,029	142	683
Oklahoma City, Okla	1963	27,244	153,127	26,140	144,968	1,104	8,159
	1958	19,072	86,972	17,932	79,326	1,140	7,646
	1954	16,937	65,459	16,493	63,031	444	2,428
Omaha, Nebr.-Iowa	1963	35,082	206,788	34,345	200,184	737	6,604
	1958	33,047	160,885	32,416	156,222	631	4,663
	1954	32,729	130,239	30,586	121,924	2,143	8,315
Orlando, Fla	1963	19,389	124,942	(D)	(D)	(D)	(D)
	1958	10,780	55,415	10,278	52,782	502	2,633
	1954	4,736	16,570	4,543	15,474	193	1,096
Paterson-Clifton-Passaic, N.J	1963	176,490	1,053,081	170,799	1,007,574	5,691	45,507
	1958	158,545	806,489	156,330	782,225	2,215	24,264
	1954	157,169	674,303	155,128	663,530	2,041	10,773
Pensacola, Fla	1963	13,101	75,897	13,101	75,897	-	-
	1958	12,529	58,556	11,867	52,598	662	5,958
	1954	8,115	28,593	8,066	28,299	49	294
Peoria, Ill	1963	40,087	277,597	(D)	(D)	(D)	(D)
	1958	37,206	195,605	(D)	(D)	(D)	(D)
	1954	41,457	186,420	38,283	168,996	[4]3,174	[4]17,424
Philadelphia, Pa.-N.J	1963	535,807	3,310,617	512,828	3,108,691	22,979	201,926
	1958	536,912	2,738,856	515,172	2,573,486	21,740	165,370
	1954	563,806	2,401,449	547,042	2,291,639	16,764	109,810
Phoenix, Ariz	1963	40,970	253,784	40,427	249,305	543	4,479
	1958	25,794	139,703	25,563	138,131	231	1,572
	1954	15,837	67,254	15,717	66,438	120	816
Pine Bluff, Ark	1963	5,148	24,513	5,148	24,513	-	-
	1958	3,927	15,736	3,920	15,696	7	40
	1954	(NA)	(NA)	3,026	8,424	(NA)	(NA)
Pittsburgh, Pa	1963	272,183	1,925,554	237,192	1,577,767	34,991	347,787
	1958	305,722	1,798,221	269,858	1,523,779	35,864	274,442
	1954	331,568	1,557,825	303,620	1,365,174	27,948	192,651
Pittsfield, Mass	1963	16,111	113,624	(D)	(D)	(D)	(D)
	1958	14,213	83,966	14,044	82,725	169	1,241
	1954	15,625	72,419	15,499	71,520	126	899
Portland, Maine	1963	12,420	63,504	(D)	(D)	(D)	(D)
	1958	12,856	55,702	12,751	54,721	105	981
	1954	(3)	(3)	(3)	(3)	(3)	(3)
Portland, Oreg.-Wash	1963	65,366	393,504	63,421	377,672	1,945	15,832
	1958	58,334	296,179	57,037	288,400	1,297	7,779
	1954	57,453	244,096	56,729	239,997	724	4,099
Providence-Pawtucket-Warwick, R.I.-Mass	1963	125,886	596,371	124,577	586,231	1,309	10,140
	1958	127,150	509,907	126,055	502,368	1,095	7,539
	1954	(3)	(3)	(3)	(3)	(3)	(3)
Provo-Orem, Utah	1963	6,884	48,893	6,884	48,893	-	-
	1958	7,345	47,117	7,345	47,117	-	-
	1954	6,734	30,397	6,734	30,397	-	-
Pueblo, Colo	1963	8,784	57,842	(D)	(D)	(D)	(D)
	1958	9,674	60,423	9,482	59,217	192	1,206
	1954	8,675	36,199	8,675	36,199	-	-
Racine, Wis	1963	22,185	147,163	(D)	(D)	(D)	(D)
	1958	21,173	112,719	20,354	107,685	819	5,034
	1954	22,695	103,984	22,024	99,999	671	3,985
Raleigh, N.C	1963	8,879	38,315	(D)	(D)	(D)	(D)
	1958	7,256	24,956	7,095	24,065	161	891
	1954	6,122	17,156	6,041	17,009	81	147

See footnotes at end of table.

TABLE 6. Manufacturing Employment and Payroll for Geographic Areas: 1963, 1958, and 1954--Continued

Geographic area	Year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries[1]	
		Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)
STANDARD METROPOLITAN STATISTICAL AREAS[2]—Continued							
Reading, Pa.	1963	50,719	255,118	50,082	250,071	637	5,047
	1958	48,429	194,423	48,170	192,121	259	2,302
	1954	49,436	169,157	49,130	167,369	306	1,788
Reno, Nev.	1963	2,126	12,755	(D)	(D)	(D)	(D)
	1958	1,921	9,805	1,891	9,490	30	315
	1954	1,666	7,503	1,666	7,503	-	-
Richmond, Va.	1963	45,980	256,564	41,898	222,700	4,082	33,864
	1958	42,999	194,705	38,894	169,348	4,105	25,357
	1954	38,374	137,478	37,078	130,030	[4]1,296	[4]7,448
Roanoke, Va.	1963	14,735	71,315	(D)	(D)	(D)	(D)
	1958	14,331	57,212	14,262	56,752	69	460
	1954	12,759	42,746	12,732	42,593	27	153
Rochester, N.Y.	1963	121,344	837,813	116,319	785,542	5,025	52,271
	1958	116,722	640,367	113,312	611,056	3,410	29,311
	1954	125,535	566,929	122,365	545,640	[4]3,170	[4]21,289
Rockford, Ill.	1963	43,932	272,946	(D)	(D)	(D)	(D)
	1958	40,756	211,538	40,756	211,538	-	-
	1954	39,422	181,982	39,422	181,982	-	-
Sacramento, Calif.	1963	35,272	272,207	35,233	271,960	39	247
	1958	23,948	141,591	23,906	141,591	42	197
	1954	13,518	57,296	13,505	57,208	[4]13	[4]88
Saginaw, Mich.	1963	25,771	191,038	25,539	188,967	232	2,071
	1958	21,201	120,723	21,201	120,723	-	-
	1954	26,625	124,462	26,625	124,462	-	-
St. Joseph, Mo.	1963	10,497	56,186	(D)	(D)	(D)	(D)
	1958	11,017	50,843	11,014	50,827	3	16
	1954	11,268	42,791	11,207	42,574	61	217
St. Louis, Mo.-Ill.	1963	259,686	1,666,302	244,320	1,539,835	15,366	126,467
	1958	262,504	1,352,978	249,001	1,258,799	13,503	94,179
	1954	271,421	1,156,920	260,075	1,091,538	[4]11,346	[4]65,382
Salt Lake City, Utah	1963	31,796	187,424	31,163	182,398	633	5,026
	1958	21,030	97,162	20,290	93,003	740	4,159
	1954	16,582	66,515	16,181	64,309	[4]401	[4]2,206
San Angelo, Tex.	1963	1,988	7,773	1,988	7,773	-	-
	1958	2,166	6,900	2,166	6,900	-	-
	1954	1,865	4,741	1,865	4,741	-	-
San Antonio, Tex.	1963	23,604	102,435	(D)	(D)	(D)	(D)
	1958	20,919	75,256	20,897	75,093	22	163
	1954	18,481	55,833	18,440	55,575	[4]41	[4]258
San Bernardino-Riverside-Ontario, Calif.	1963	37,568	238,747	37,534	238,543	34	204
	1958	29,216	156,682	29,165	156,325	51	357
	1954	23,859	101,641	23,815	101,401	44	240
San Diego, Calif.	1963	60,276	453,047	(D)	(D)	(D)	(D)
	1958	71,383	447,822	70,867	442,962	516	4,860
	1954	48,137	224,969	47,731	221,656	406	3,313
San Francisco-Oakland, Calif.	1963	196,163	1,356,640	178,175	1,188,884	17,988	167,756
	1958	190,251	1,080,369	176,140	970,911	14,111	109,458
	1954	184,341	873,420	171,270	785,273	13,071	88,147
San Jose, Calif.	1963	94,743	739,855	93,168	726,323	1,575	13,532
	1958	53,921	340,494	51,377	322,743	2,544	17,751
	1954	28,434	118,868	27,942	116,213	492	2,655
Santa Barbara, Calif.	1963	7,788	51,876	5,134	29,405	2,654	22,471
	1958	3,919	18,950	3,808	17,720	111	1,230
	1954	1,928	7,762	1,928	7,762	-	-
Savannah, Ga.	1963	14,787	75,451	(D)	(D)	(D)	(D)
	1958	14,588	63,754	14,582	63,729	6	25
	1954	13,323	47,275	13,323	47,275	-	-
Scranton, Pa.	1963	29,025	115,163	(D)	(D)	(D)	(D)
	1958	27,365	94,947	27,307	94,758	58	189
	1954	31,496	94,406	31,478	94,351	18	55
Seattle-Everett, Wash.	1963	121,556	855,212	120,205	842,652	1,351	12,560
	1958	114,871	659,684	114,290	655,437	581	4,247
	1954	88,189	394,965	87,726	392,260	463	2,705
Shreveport, La.	1963	9,111	45,598	9,094	45,444	17	154
	1958	9,112	40,838	9,024	40,223	88	615
	1954	8,092	28,922	8,037	28,592	55	330
Sioux City, Iowa-Nebr.	1963	7,484	41,545	7,438	41,361	46	184
	1958	8,345	38,771	8,345	38,771	-	-
	1954	9,529	37,101	9,509	37,013	[4]20	[4]88

See footnotes at end of table.

TABLE 6. Manufacturing Employment and Payroll for Geographic Areas: 1963, 1958, and 1954--Continued

Geographic area	Year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries[1]	
		Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)
STANDARD METROPOLITAN STATISTICAL AREAS[2]—Continued							
Sioux Falls, S. Dak.	1963	6,098	36,955	6,047	36,545	51	410
	1958	6,085	29,057	6,085	29,057	-	-
	1954	5,402	21,656	5,402	21,656	-	-
South Bend, Ind.	1963	37,664	244,152	(D)	(D)	(D)	(D)
	1958	36,910	204,808	36,877	204,575	33	233
	1954	45,332	207,711	45,332	207,711	-	-
Spokane, Wash.	1963	11,825	76,417	(D)	(D)	(D)	(D)
	1958	12,776	70,110	12,759	70,020	17	90
	1954	13,729	60,172	13,674	59,851	55	321
Springfield, Ill.	1963	11,613	67,714	11,613	67,714	-	-
	1958	11,195	56,346	11,195	56,346	-	-
	1954	12,819	53,285	12,816	53,256	3	29
Springfield, Mo.	1963	11,053	50,833	11,053	50,833	-	-
	1958	8,618	33,359	8,618	33,359	-	-
	1954	6,695	20,775	6,682	20,697	13	78
Springfield, Ohio.	1963	16,388	100,611	(D)	(D)	(D)	(D)
	1958	13,066	69,534	(D)	(D)	(D)	(D)
	1954	16,823	70,435	16,823	70,435	-	-
Springfield-Chicopee-Holyoke, Mass.-Conn.	1963	67,354	370,304	66,289	359,749	1,065	10,555
	1958	72,374	345,436	70,635	332,844	1,739	12,592
	1954	(3)	(3)	(3)	(3)	(3)	(3)
Stamford, Conn.	1963	23,854	163,083	19,419	124,936	4,435	38,147
	1958	19,442	105,666	16,959	91,036	2,483	14,630
	1954	(3)	(3)	(3)	(3)	(3)	(3)
Steubenville-Weirton, Ohio-W. Va.	1963	28,581	205,991	(D)	(D)	(D)	(D)
	1958	29,829	172,889	29,273	167,954	556	4,935
	1954	32,581	143,829	31,853	139,422	728	4,407
Stockton, Calif.	1963	14,352	84,444	(D)	(D)	(D)	(D)
	1958	12,667	61,314	12,667	61,314	-	-
	1954	11,145	45,631	11,033	45,205	112	426
Syracuse, N.Y.	1963	66,985	422,822	63,598	395,289	3,387	27,533
	1958	69,511	366,703	66,647	349,831	2,864	16,872
	1954	70,327	295,891	67,697	282,164	2,630	13,727
Tacoma, Wash.	1963	16,564	98,866	(D)	(D)	(D)	(D)
	1958	16,648	82,716	15,697	76,773	951	5,943
	1954	17,534	77,270	17,052	72,643	482	4,627
Tampa-St. Petersburg, Fla.	1963	36,690	189,104	36,323	186,197	367	2,907
	1958	32,219	121,922	31,482	117,423	737	4,499
	1954	22,907	70,924	22,873	70,750	34	174
Terre Haute, Ind.	1963	11,542	60,652	(D)	(D)	(D)	(D)
	1958	12,313	55,244	12,262	54,993	51	251
	1954	14,032	55,363	13,996	55,219	[4]36	[4]144
Texarkana, Tex.-Ark.	1963	5,640	25,875	5,640	25,875	-	-
	1958	3,034	10,605	3,034	10,605	-	-
	1954	4,643	15,038	4,643	15,038	-	-
Toledo, Ohio-Mich.	1963	70,744	486,013	65,306	435,767	5,438	50,246
	1958	70,838	410,009	66,635	375,994	4,203	34,015
	1954	78,550	391,626	75,130	369,218	[4]3,420	[4]22,408
Topeka, Kans.	1963	6,588	40,254	6,488	39,497	100	757
	1958	6,185	30,464	6,002	29,642	183	822
	1954	6,174	24,060	6,010	23,711	164	349
Trenton, N.J.	1963	37,789	244,494	33,939	210,594	3,850	33,900
	1958	36,232	182,938	35,077	173,198	1,155	9,740
	1954	39,517	165,971	38,289	157,238	1,228	8,733
Tucson, Ariz.	1963	8,263	50,777	8,263	50,777	-	-
	1958	8,152	44,862	8,102	44,552	50	310
	1954	4,548	20,134	4,548	20,134	-	-
Tulsa, Okla.	1963	29,879	174,058	27,708	158,695	2,171	15,363
	1958	33,191	171,624	30,703	157,281	2,488	14,343
	1954	32,809	141,229	31,314	132,959	1,495	8,270
Tuscaloosa, Ala.	1963	7,763	39,475	7,763	39,475	-	-
	1958	7,878	34,721	7,878	34,721	-	-
	1954	8,148	30,099	8,148	30,099	-	-
Tyler, Tex.	1963	7,243	34,111	7,243	34,111	-	-
	1958	5,576	22,529	(D)	(D)	(D)	(D)
	1954	(NA)	(NA)	3,726	12,520	(NA)	(NA)

See footnotes at end of table.

TABLE 6. Manufacturing Employment and Payroll for Geographic Areas: 1963, 1958, and 1954--Continued

Geographic area	Year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries[1]	
		Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)	Employees (number)	Payroll ($1,000)
STANDARD METROPOLITAN STATISTICAL AREAS[2]—Continued							
Utica-Rome, N.Y.	1963	38,474	218,709	38,182	216,030	292	2,679
	1958	40,562	194,838	40,251	192,756	311	2,082
	1954	43,125	169,169	42,941	168,193	184	976
Vallejo-Napa, Calif.	1963	4,489	26,279	(D)	(D)	(D)	(D)
	1958	4,458	22,150	4,205	20,295	253	1,855
	1954	(NA)	(NA)	3,636	14,733	(NA)	(NA)
Waco, Tex.	1963	9,470	47,852	(D)	(D)	(D)	(D)
	1958	8,843	36,449	8,723	35,806	120	643
	1954	7,846	27,257	7,715	26,521	131	736
Washington, D.C.- Md.-Va.	1963	50,090	324,319	46,982	291,275	3,108	33,044
	1958	34,715	177,692	34,046	172,108	669	5,584
	1954	30,715	133,465	30,373	131,088	342	2,377
Waterbury, Conn.	1963	37,687	222,848	(D)	(D)	(D)	(D)
	1958	37,411	189,763	36,641	183,772	770	5,991
	1954	(3)	(3)	(3)	(3)	(3)	(3)
Waterloo, Iowa	1963	18,265	118,966	(D)	(D)	(D)	(D)
	1958	18,027	97,522	18,023	97,506	4	16
	1954	16,656	72,951	16,652	72,904	4	47
West Palm Beach, Fla.	1963	11,869	73,299	(D)	(D)	(D)	(D)
	1958	3,420	14,372	3,420	14,372	-	-
	1954	(NA)	(NA)	2,080	6,891	(NA)	(NA)
Wheeling, W. Va.-Ohio	1963	15,599	92,871	(D)	(D)	(D)	(D)
	1958	17,158	85,269	16,334	78,812	824	6,457
	1954	18,787	72,068	17,834	66,263	953	5,805
Wichita, Kans.	1963	43,321	286,600	42,150	278,602	1,171	7,998
	1958	54,494	290,669	53,980	288,179	514	2,490
	1954	54,865	245,592	54,795	245,033	4470	4559
Wichita Falls, Tex.	1963	3,185	14,861	(D)	(D)	(D)	(D)
	1958[3]	3,293	13,541	3,249	13,313	44	228
	1954[3]	3,026	11,073	3,015	11,012	11	61
Wilkes-Barre-Hazleton, Pa.	1963	43,754	164,840	43,530	163,623	224	1,217
	1958	38,673	122,778	38,542	122,309	131	469
	1954	36,980	97,764	36,902	97,448	78	316
Wilmington, Del.-N.J.-Md.	1963	59,449	468,552	42,312	283,492	17,137	185,060
	1958	58,709	380,788	41,379	225,010	17,330	155,778
	1954	56,143	297,026	40,973	180,031	415,170	4116,995
Winston-Salem, N.C.	1963	37,116	186,781	(D)	(D)	(D)	(D)
	1958	35,568	150,769	33,336	134,937	2,232	15,832
	1954	31,771	107,369	29,930	96,515	1,841	10,854
Worcester, Mass.	1963	47,560	266,892	(D)	(D)	(D)	(D)
	1958	51,124	241,978	51,079	241,594	45	384
	1954	(3)	(3)	(3)	(3)	(3)	(3)
York, Pa.	1963	48,750	224,123	48,418	221,039	332	3,084
	1958	48,882	194,957	48,770	194,303	112	654
	1954	50,845	176,421	50,845	176,421	-	-
Youngstown-Warren, Ohio	1963	69,084	477,425	68,023	467,900	1,061	9,525
	1958	76,437	427,332	75,691	421,309	746	6,023
	1954	86,780	394,416	86,255	391,134	525	3,282

Note: See Introduction for explanation of terms used.

The totals at the State and U.S. level were derived from separate tabulations based on industry rather than State detail. The sum of the State detail does not add to the U.S. totals because of (1) independent rounding, and (2) independent correction to the industry tabulations and State tabulations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1]The 1963, 1958, and 1954 data for central administrative offices and auxiliaries are not strictly comparable for the following reasons: (1) better total coverage was achieved in the 1963 and 1958 Censuses in identifying and obtaining separate establishment reports for such activities; (2) the individual 1954 major industry group totals reflect the former Standard Industrial Classification system (of 1945) used in the 1954 Census, while the 1958 and 1963 figures reflect the revised SIC system (of 1957 as amended to date) used in classifying such establishments.

[2]The definitions of the standard metropolitan statistical areas are shown in appendix F.

[3]Comparable data for 1954 are not available due to a revision in the definition of the standard metropolitan statistical area. See the 1958 and 1954 Census of Manufactures Area Statistics, Volume III, for statistics for the area as defined at that time.

Footnotes for Table 6—Continued

TABLE 6. Manufacturing Employment and Payroll for Geographic Areas: 1963, 1958, and 1954–Continued

Footnotes for Table 6--Continued

[4]For the SMSA's listed in the table below (whose definitions were revised for 1963) the 1954 data for central administrative office and auxiliary do not include establishments located in specified counties. County data for 1954 for these units were not available.

Standard metropolitan statistical area	County
Akron, Ohio	Portage
Binghamton, N.Y.-Pa.	Tioga in New York and Susquehanna in Pennsylvania
Charleston, S.E.	Berkeley
Charlotte, N.C.	Union
Cincinnati, Ohio	Clermont and Warren in Ohio, Boone in Kentucky, and Dearborn in Indiana
Cleveland, Ohio	Geauga and Madina
Columbus, Ohio	Delaware and Pickaway
Davenport-Rock Island-Moline, Iowa-Ill.	Henry in Illinois
Dayton, Ohio	Preble
Evansville, Ind.-Ky.	Warwick in Indiana
Flint, Mich.	Lapeer
Grand Rapids, Mich.	Ottawa
Greenville, S.C.	Pickens
Harrisburg, Pa.	Perry
Houston, Texas	Brazoria, Fort Bend, Liberty, and Montgomery
Indianapolis, Ind.	Hamilton, Hancock, Hendricks, Johnson, Morgan, and Shelby
Jackson, Miss.	Rankin
Kansas City, Mo.-Kans.	Cass and Platte in Missouri
Memphis, Tenn.-Ark.	Crittenden in Arkansas
Milwaukee, Wisc.	Ozaukee
Mobile, Ala.	Baldwin
Nashville, Tenn.	Summer and Wilson
New Orleans, La.	St. Tammany Parrish
Peoria, Ill.	Woodford
Richmond, Va.	Hanover
Rochester, N.Y.	Livingston, Orleans, and Wayne
Sacramento, Calif.	Placer and Yolo
St. Louis, Mo.-Ill.	Franklin in Missouri
Salt Lake City, Utah	Davis
San Antonio, Tex.	Guadalupe
Sioux City, Iowa-Nebr.	Dakota in Nebraska
Terre Haute, Ind.	Clay, Sullivan, and Vermillion
Toledo, Ohio-Mich.	Wood in Ohio and Monroe in Michigan
Wichita, Kans.	Butler
Wilmington, Del.-N.J.-Md.	Cecil in Maryland

[5]1954 employment and payroll data for administrative offices and auxiliary units located in the Anaheim-Santa Ana-Garden Grove, Calif. SMSA, are included in the data shown for the Los Angeles, Calif. SMSA.

TABLE 7. General Statistics for Manufacturing Establishments by Geographic Areas: 1963 and Earlier Years

Geographic area [1]	Establishments [2]		All employees [2]		Production workers			Value added by manufacture, adjusted	Capital expenditures, new [2]	Comparative employment indexes		
	Total	With 20 employees or more	Total	Payroll	Total	Man-hours	Wages			Percent of U.S. employment	Index of employment change	U.S. index of employment change
	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)	($1,000)	(percent)	(1958=100)	(1958=100)
United States:												
1963	311,921	102,272	16,960,983	99,904,279	12,232,041	24,509,450	62,093,601	192,103,102	11,370,935	(X)	(X)	106
1958	303,387	97,563	16,025,219	78,348,893	11,681,143	22,679,219	49,605,180	141,540,618	9,543,528	(X)	(X)	100
1954	286,814	90,470	16,098,653	65,866,573	12,372,002	24,334,082	44,590,545	117,032,326	7,816,752	(X)	(X)	100
1947	240,807	(NA)	14,293,963	39,695,558	11,917,884	24,316,465	30,243,971	74,290,475	5,998,099	(X)	(X)	89
1939	173,802	(NA)	9,527,306	12,706,102	7,808,205	(NA)	8,997,515	24,487,304	(NA)	(X)	(X)	59
1929	206,663	(NA)	9,659,742	14,284,282	8,369,705	(NA)	10,884,919	30,591,435	(NA)	(X)	(X)	60
1919	270,231	(NA)	9,836,801	12,426,902	8,464,916	(NA)	9,664,009	23,841,624	(NA)	(X)	(X)	61
1909	264,810	(NA)	7,012,066	4,105,470	6,261,736	(NA)	3,205,213	8,160,075	(NA)	(X)	(X)	44
1899	204,754	(NA)	4,850,019	2,258,654	4,501,919	(NA)	1,892,574	4,646,981	(NA)	(X)	(X)	30
DIVISION AND STATE												
New England:												
1963	24,650	8,677	1,425,148	7,815,096	1,043,099	2,084,757	4,889,395	13,589,313	639,328	8.40	102	106
1958	24,880	8,508	1,399,515	6,297,729	1,048,771	2,053,072	4,099,202	10,439,964	534,141	8.73	100	100
1954	24,625	8,380	1,448,467	5,453,854	1,154,079	2,272,287	3,858,697	9,128,278	424,263	8.99	103	100
1947	20,256	(NA)	1,475,162	3,940,122	1,248,839	(NA)	3,054,437	6,798,114	418,580	10.32	105	89
1939	15,201	(NA)	1,121,152	1,402,144	947,412	(NA)	1,018,683	2,413,968	(NA)	11.77	80	59
1929	18,272	(NA)	1,245,868	1,732,777	1,098,514	(NA)	1,346,391	3,239,798	(NA)	12.90	89	60
1919	24,552	(NA)	1,509,093	1,765,285	1,347,531	(NA)	1,431,687	3,221,328	(NA)	15.34	108	61
1909	25,351	(NA)	1,187,987	669,914	1,101,290	(NA)	557,630	1,193,767	(NA)	16.94	85	44
1899	22,576	(NA)	897,305	421,070	851,903	(NA)	367,675	756,311	(NA)	18.50	64	30
Maine:												
1963	2,535	595	99,926	438,592	84,100	170,056	335,105	785,730	62,489	0.59	102	106
1958	2,755	579	98,262	377,186	83,670	166,222	285,216	628,325	44,329	0.61	100	100
1954	3,015	627	104,507	325,048	91,092	180,691	260,047	565,260	58,935	0.64	106	100
1947	1,633	(NA)	100,118	233,851	90,323	(NA)	199,085	429,540	(NA)	0.70	102	89
1939	1,118	(NA)	82,184	83,479	74,040	(NA)	67,340	150,588	(NA)	0.86	84	59
1929	1,568	(NA)	76,799	90,300	70,159	(NA)	74,200	174,385	(NA)	0.80	78	60
1919	2,834	(NA)	96,082	111,203	88,251	(NA)	93,761	201,444	(NA)	0.98	98	61
1909	3,546	(NA)	84,815	43,429	79,955	(NA)	37,632	78,928	(NA)	1.21	86	44
1899	2,878	(NA)	73,017	28,781	69,914	(NA)	25,731	51,749	(NA)	1.51	74	30
New Hampshire:												
1963	1,509	546	84,107	378,888	68,610	135,115	271,790	636,088	30,288	0.50	106	106
1958	1,457	494	79,469	297,094	65,588	128,144	221,083	490,709	24,365	0.50	100	100
1954	1,609	497	77,332	246,719	65,987	128,465	190,760	408,826	18,492	0.49	97	100
1947	1,124	478	74,752	177,479	66,448	136,119	145,324	306,932	24,010	0.52	94	89
1939	772	(NA)	61,224	65,154	55,434	(NA)	52,394	104,153	(NA)	0.64	77	59
1929	1,075	(NA)	71,233	85,264	65,511	(NA)	70,514	147,132	(NA)	0.74	90	60
1919	1,451	(NA)	88,726	92,330	82,917	(NA)	79,136	167,329	(NA)	0.90	112	61
1909	1,961	(NA)	82,177	40,391	78,658	(NA)	36,200	66,424	(NA)	1.17	103	44
1899	1,771	(NA)	69,714	28,049	67,646	(NA)	25,850	47,427	(NA)	1.44	88	30
Vermont:												
1963	978	267	33,740	168,006	25,681	52,364	113,390	309,253	15,678	0.20	104	106
1958	1,040	277	32,495	132,466	25,397	50,252	92,129	235,898	11,598	0.20	100	100
1954	1,071	296	36,112	123,577	29,929	59,328	92,962	222,965	8,876	0.22	111	100
1947	831	(NA)	34,886	83,050	30,252	(NA)	66,428	149,715	(NA)	0.24	107	89
1939	659	(NA)	24,084	27,422	20,498	(NA)	19,940	49,741	(NA)	0.25	74	59
1929	927	(NA)	30,540	41,946	27,421	(NA)	33,810	77,260	(NA)	0.32	94	60
1919	1,702	(NA)	36,709	41,069	33,194	(NA)	33,758	71,788	(NA)	0.37	113	61
1909	1,958	(NA)	36,467	20,075	33,788	(NA)	17,272	33,487	(NA)	0.52	112	44
1899	1,938	(NA)	29,874	13,037	28,179	(NA)	11,427	25,130	(NA)	0.62	92	30
Massachusetts:												
1963	11,311	4,351	674,023	3,712,418	480,736	948,262	2,234,635	6,403,789	272,983	3.97	99	106
1958	11,565	4,377	680,581	3,070,829	498,103	968,683	1,932,012	5,128,522	228,513	4.24	100	100
1954	11,205	4,229	685,441	2,575,649	536,456	1,047,412	1,769,102	4,356,462	180,698	4.25	101	100
1947	10,509	(NA)	718,069	1,920,718	601,370	(NA)	1,463,144	3,356,311	(NA)	5.02	106	89
1939	8,444	(NA)	549,550	702,487	458,372	(NA)	498,177	1,181,465	(NA)	5.77	81	59
1929	9,872	(NA)	639,164	910,023	557,494	(NA)	694,805	1,710,729	(NA)	6.62	94	60
1919	11,627	(NA)	801,260	947,768	712,254	(NA)	764,579	1,746,539	(NA)	8.15	118	61
1909	11,684	(NA)	633,205	364,452	584,559	(NA)	301,173	659,764	(NA)	9.03	93	44
1899	10,929	(NA)	463,490	224,758	438,234	(NA)	195,278	408,971	(NA)	9.56	68	30
Rhode Island:												
1963	2,710	868	113,940	533,416	89,990	177,224	365,329	958,575	43,107	0.67	100	106
1958	2,737	907	114,511	453,098	91,393	175,924	314,338	756,187	29,895	0.71	100	100
1954	2,635	867	125,041	431,889	103,800	204,383	314,467	697,279	27,671	0.77	108	100
1947	2,213	(NA)	147,382	375,676	128,579	(NA)	298,482	658,905	(NA)	1.03	129	89
1939	1,399	(NA)	122,671	141,262	106,089	(NA)	105,216	237,698	(NA)	1.29	107	59
1929	1,701	(NA)	140,116	182,899	126,068	(NA)	144,197	324,078	(NA)	1.45	122	60
1919	2,367	(NA)	153,499	168,068	139,316	(NA)	137,105	330,590	(NA)	1.56	134	61
1909	1,951	(NA)	120,920	65,811	113,538	(NA)	55,234	122,152	(NA)	1.72	106	44
1899	1,678	(NA)	92,219	41,296	88,197	(NA)	35,995	77,599	(NA)	1.90	81	30

See footnotes at end of table.

TABLE 7. General Statistics for Manufacturing Establishments by Geographic Areas: 1963 and Earlier Years—Continued

Geographic area [1]	Establishments [2]		All employees [2]		Production workers			Value added by manufacture, adjusted	Capital expenditures, new [3]	Comparative employment indexes		
	Total	With 20 employees or more	Total	Payroll	Total	Man-hours	Wages			Percent of U.S. employment	Index of employment change	U.S. index of employment change
	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)	($1,000)	(percent)	(1958=100)	(1958=100)
DIVISION AND STATE--Continued												
New England--Continued												
Connecticut:												
1963	5,607	2,050	419,412	2,583,776	293,982	601,736	1,569,146	4,495,878	214,783	2.47	106	106
1958	5,326	1,874	394,197	1,967,056	284,620	563,847	1,254,424	3,200,323	195,441	2.45	100	100
1954	5,090	1,864	420,034	1,750,972	326,815	652,008	1,231,359	2,877,486	129,591	2.60	107	100
1947	3,946	(NA)	399,955	1,149,348	331,867	(NA)	881,974	1,896,711	(NA)	2.80	102	89
1939	2,809	(NA)	281,439	382,340	232,979	(NA)	275,616	690,323	(NA)	2.95	71	59
1929	3,129	(NA)	288,016	422,345	251,861	(NA)	328,865	806,214	(NA)	2.98	73	60
1919	4,571	(NA)	332,817	404,847	291,599	(NA)	323,348	703,638	(NA)	3.38	84	61
1909	4,251	(NA)	230,403	135,756	210,792	(NA)	110,119	233,012	(NA)	3.28	58	44
1899	3,382	(NA)	168,991	85,149	159,733	(NA)	73,394	145,435	(NA)	3.48	43	30
Middle Atlantic:												
1963	81,707	28,526	4,075,173	24,419,747	2,849,588	5,578,930	14,295,450	43,560,055	2,086,242	24.03	99	106
1958	82,997	27,729	4,112,522	20,470,339	2,901,540	5,548,703	12,285,361	34,813,891	2,058,255	25.66	100	100
1954	82,380	27,535	4,284,266	17,855,231	3,212,477	6,217,338	11,524,924	30,402,665	1,551,088	26.61	104	100
1947	75,341	(NA)	3,953,870	11,419,701	3,248,732	(NA)	8,524,628	20,767,991	1,335,235	27.66	96	89
1939	53,226	(NA)	2,757,909	3,859,853	2,234,295	(NA)	2,668,489	7,308,780	(NA)	28.95	67	59
1929	64,730	(NA)	3,002,843	4,853,031	2,562,340	(NA)	3,640,419	10,175,956	(NA)	31.09	73	60
1919	85,509	(NA)	3,348,567	4,463,569	2,859,604	(NA)	3,447,834	8,399,615	(NA)	34.04	81	61
1909	81,315	(NA)	2,491,161	1,527,833	2,207,747	(NA)	1,182,568	2,982,264	(NA)	35.53	61	44
1899	65,834	(NA)	1,732,170	871,309	1,604,844	(NA)	729,366	1,763,315	(NA)	35.71	42	30
New York:												
1963	47,040	15,017	1,853,050	11,289,860	1,247,860	2,431,384	6,163,719	19,559,120	783,556	10.92	97	106
1958	49,441	15,000	1,915,546	9,627,723	1,303,126	2,487,134	5,423,559	15,891,767	792,201	11.95	100	100
1954	50,402	15,156	2,000,717	8,444,256	1,470,137	2,842,598	5,231,858	14,140,524	572,125	12.42	104	100
1947	47,782	(NA)	1,773,138	5,277,656	1,425,033	(NA)	3,821,492	9,655,859	(NA)	12.40	93	89
1939	32,672	(NA)	1,211,010	1,749,676	949,362	(NA)	1,151,820	3,313,649	(NA)	12.71	63	59
1929	39,395	(NA)	1,331,357	2,294,882	1,105,966	(NA)	1,650,379	4,973,920	(NA)	13.78	70	60
1919	48,331	(NA)	1,467,443	1,961,398	1,221,933	(NA)	1,450,119	3,908,864	(NA)	14.92	77	61
1909	44,935	(NA)	1,155,672	743,263	1,003,981	(NA)	557,231	1,512,586	(NA)	16.48	60	44
1899	35,957	(NA)	794,939	414,064	726,909	(NA)	337,324	853,454	(NA)	16.39	41	30
New Jersey:												
1963	15,208	5,528	829,201	5,121,254	573,754	1,145,410	3,021,004	9,957,333	525,006	4.89	104	106
1958	14,219	4,994	794,992	4,066,481	564,227	1,100,953	2,508,089	7,499,513	449,734	4.96	100	100
1954	13,183	4,748	812,445	3,507,089	605,099	1,187,747	2,280,134	6,331,655	359,816	5.04	102	100
1947	10,765	(NA)	739,035	2,216,874	602,304	(NA)	1,645,489	4,186,077	(NA)	5.17	93	89
1939	7,438	(NA)	531,126	753,941	431,562	(NA)	519,087	1,518,269	(NA)	5.57	67	59
1929	8,388	(NA)	516,576	808,862	442,328	(NA)	610,596	1,771,430	(NA)	5.34	65	60
1919	10,564	(NA)	590,920	769,258	507,059	(NA)	598,514	1,397,775	(NA)	6.00	74	61
1909	8,817	(NA)	363,061	218,046	326,223	(NA)	169,710	425,496	(NA)	5.17	46	44
1899	6,415	(NA)	229,336	114,223	213,975	(NA)	95,165	218,280	(NA)	4.73	29	30
Pennsylvania:												
1963	19,459	7,981	1,392,922	8,008,633	1,027,974	2,002,136	5,110,727	14,043,602	777,680	8.21	99	106
1958	19,337	7,735	1,401,984	6,776,135	1,034,187	1,960,616	4,353,713	11,422,611	816,320	8.74	100	100
1954	18,795	7,631	1,471,104	5,903,886	1,137,241	2,186,993	4,012,932	9,930,486	619,147	9.14	105	100
1947	16,794	(NA)	1,441,697	3,925,171	1,221,395	(NA)	3,057,647	6,926,055	(NA)	10.09	103	89
1939	13,116	(NA)	1,015,773	1,356,236	853,371	(NA)	997,582	2,476,862	(NA)	10.66	72	59
1929	16,947	(NA)	1,154,910	1,749,287	1,014,046	(NA)	1,379,444	3,430,606	(NA)	11.96	82	60
1919	26,614	(NA)	1,290,204	1,732,913	1,130,612	(NA)	1,399,201	3,092,976	(NA)	13.12	92	61
1909	27,563	(NA)	972,428	566,524	877,543	(NA)	455,627	1,044,182	(NA)	13.87	69	44
1899	23,462	(NA)	707,895	343,022	663,960	(NA)	296,877	691,581	(NA)	14.60	50	30
East North Central:												
1963	63,092	22,320	4,483,054	29,207,670	3,233,923	6,615,378	18,882,672	56,326,662	3,221,068	26.43	105	106
1958	61,769	20,885	4,261,428	22,992,178	3,028,034	5,924,355	14,541,759	40,961,847	2,710,816	26.59	100	100
1954	58,946	20,495	4,598,257	20,893,191	3,489,179	6,958,163	14,262,278	36,491,375	2,653,889	28.56	108	100
1947	50,569	(NA)	4,322,812	13,019,837	3,567,816	(NA)	9,940,544	23,474,183	1,863,548	30.24	101	89
1939	38,013	(NA)	2,692,815	4,092,078	2,180,600	(NA)	2,932,440	7,744,406	(NA)	28.26	63	59
1929	46,396	(NA)	2,949,356	4,841,271	2,542,176	(NA)	3,738,803	9,973,491	(NA)	30.53	69	60
1919	58,717	(NA)	2,834,606	3,849,389	2,387,477	(NA)	2,981,205	7,093,838	(NA)	28.81	66	61
1909	60,013	(NA)	1,729,537	1,077,650	1,513,764	(NA)	827,153	2,177,230	(NA)	24.67	41	44
1899	50,521	(NA)	1,176,672	574,539	1,073,322	(NA)	473,040	1,205,478	(NA)	24.26	28	30
Ohio:												
1963	15,483	5,796	1,239,515	8,123,609	885,675	1,799,730	5,257,176	15,506,118	847,801	7.31	103	106
1958	15,203	5,534	1,201,031	6,522,547	856,457	1,658,460	4,170,233	11,472,503	795,773	7.49	100	100
1954	14,550	5,479	1,292,195	5,820,988	985,697	1,946,766	4,015,298	10,154,385	760,913	8.02	108	100
1947	12,302	(NA)	1,194,263	3,559,540	988,110	(NA)	2,726,991	6,357,957	(NA)	8.36	99	89
1939	9,543	(NA)	731,742	1,120,831	595,520	(NA)	809,399	2,116,434	(NA)	7.68	61	59
1929	11,855	(NA)	853,385	1,404,180	741,143	(NA)	1,102,166	2,889,804	(NA)	8.83	71	60
1919	15,585	(NA)	867,255	1,214,552	728,303	(NA)	941,340	2,182,610	(NA)	8.82	72	61
1909	15,138	(NA)	508,285	317,597	446,934	(NA)	245,450	613,734	(NA)	7.25	42	44
1899	13,868	(NA)	336,218	164,579	308,109	(NA)	136,428	339,368	(NA)	6.93	28	30

See footnotes at end of table.

TABLE 7. General Statistics for Manufacturing Establishments by Geographic Areas: 1963 and Earlier Years--Continued

Geographic area [1]	Establishments [2]		All employees [2]		Production workers			Value added by manufacture, adjusted	Capital expenditures, new [3]	Comparative employment indexes		
	Total	With 20 employees or more	Total	Payroll	Total	Man-hours	Wages			Percent of U.S. employment	Index of employment change	U.S. index of employment change
	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)	($1,000)	(percent)	(1958-100)	(1958=100)
DIVISION AND STATE--Continued												
East North Central--Continued												
Indiana:												
1963	6,860	2,547	609,840	3,794,289	463,102	937,168	2,622,091	7,726,942	555,247	3.60	111	106
1958	6,612	2,444	551,048	2,874,730	407,496	795,956	1,912,847	5,502,123	515,295	3.44	100	100
1954	6,355	2,344	588,408	2,533,375	458,894	904,092	1,798,844	4,631,972	301,479	3.65	106	100
1947	5,403	(NA)	548,260	1,582,837	457,544	(NA)	1,232,189	2,969,961	(NA)	3.83	99	89
1939	4,192	(NA)	337,869	474,099	275,272	(NA)	342,652	964,746	(NA)	3.55	61	59
1929	5,091	(NA)	359,888	534,186	314,698	(NA)	418,771	1,136,463	(NA)	3.73	65	60
1919	7,558	(NA)	332,362	400,942	276,695	(NA)	315,976	721,736	(NA)	3.38	60	61
1909	7,969	(NA)	210,589	121,816	186,984	(NA)	95,511	244,700	(NA)	3.00	38	44
1899	7,128	(NA)	149,464	69,251	139,017	(NA)	59,280	141,909	(NA)	3.08	27	30
Illinois:												
1963	18,592	6,973	1,210,802	7,557,979	855,820	1,716,812	4,655,057	14,640,121	775,542	7.14	102	106
1958	18,468	6,586	1,189,914	6,224,830	835,233	1,631,757	3,833,476	11,664,070	730,728	7.42	100	100
1954	17,628	6,377	1,222,428	5,420,867	902,967	1,787,663	3,518,602	9,663,848	551,669	7.59	103	100
1947	15,993	(NA)	1,186,134	3,589,364	955,057	(NA)	2,628,615	6,683,083	(NA)	5.27	100	89
1939	11,983	(NA)	752,728	1,107,625	590,995	(NA)	742,451	2,187,240	(NA)	8.68	63	59
1929	15,333	(NA)	827,507	1,393,592	691,555	(NA)	1,024,870	2,930,038	(NA)	7.65	70	60
1919	17,808	(NA)	785,859	1,070,992	649,994	(NA)	797,081	1,929,125	(NA)	8.00	67	61
1909	18,026	(NA)	543,687	364,758	465,764	(NA)	273,319	758,350	(NA)	7.75	46	44
1899	14,374	(NA)	373,835	199,653	332,871	(NA)	159,104	439,418	(NA)	7.71	32	30
Michigan:												
1963	14,220	4,537	961,090	6,950,677	690,795	1,473,850	4,520,975	13,090,328	761,813	5.67	109	106
1958	13,596	3,990	880,014	5,161,162	608,856	1,204,072	3,184,797	8,363,614	465,273	5.49	100	100
1954	12,711	4,001	1,056,011	5,248,902	809,316	1,650,338	3,660,965	8,707,194	870,465	6.56	120	100
1947	9,891	(NA)	975,481	3,097,336	823,255	(NA)	2,444,552	5,200,135	(NA)	6.82	111	89
1939	5,961	(NA)	618,702	1,024,965	520,165	(NA)	788,036	1,794,016	(NA)	6.49	70	59
1929	6,686	(NA)	599,179	1,041,789	530,035	(NA)	840,505	2,067,344	(NA)	6.20	68	60
1919	8,046	(NA)	541,175	787,241	470,274	(NA)	638,420	1,544,581	(NA)	5.50	61	61
1909	9,159	(NA)	262,106	153,838	231,499	(NA)	118,968	316,497	(NA)	3.74	30	44
1899	7,310	(NA)	169,150	74,868	155,800	(NA)	62,532	143,726	(NA)	3.49	19	30
Wisconsin:												
1963	7,937	2,467	461,807	2,781,116	338,531	687,818	1,827,373	5,363,153	280,665	2.72	105	106
1958	7,890	2,331	439,421	2,208,909	319,992	634,110	1,440,406	3,959,537	203,747	2.74	100	100
1954	7,702	2,294	439,215	1,869,059	332,305	669,304	1,268,569	3,333,976	169,363	2.73	100	100
1947	6,980	(NA)	418,674	1,190,760	343,850	(NA)	908,197	2,263,047	(NA)	2.93	95	89
1939	6,334	(NA)	251,774	364,558	198,648	(NA)	249,902	681,970	(NA)	2.64	57	59
1929	7,431	(NA)	309,397	467,524	264,745	(NA)	352,491	949,842	(NA)	3.20	70	60
1919	9,720	(NA)	307,955	375,662	262,211	(NA)	288,388	715,786	(NA)	3.13	70	61
1909	9,721	(NA)	204,870	119,641	182,583	(NA)	93,905	243,949	(NA)	2.92	47	44
1899	7,841	(NA)	148,005	66,188	137,525	(NA)	55,696	141,057	(NA)	3.05	34	30
West North Central:												
1963	20,668	6,257	1,014,295	5,894,588	714,303	1,438,382	3,673,671	11,808,611	664,882	5.98	105	106
1958	20,406	5,836	964,104	4,615,458	685,261	1,342,576	2,913,709	8,869,724	560,909	6.01	100	100
1954	19,020	5,483	962,040	3,854,696	713,218	1,426,485	2,573,275	7,113,932	389,111	5.97	100	100
1947	17,389	(NA)	786,147	2,069,657	635,455	(NA)	1,507,209	4,115,706	340,462	5.50	82	89
1939	14,066	(NA)	490,651	642,705	376,156	(NA)	420,581	1,348,167	(NA)	5.15	51	59
1929	17,792	(NA)	567,160	804,673	474,115	(NA)	589,162	1,869,991	(NA)	5.87	59	60
1919	26,255	(NA)	603,866	734,649	492,054	(NA)	536,304	1,387,774	(NA)	6.14	63	61
1909	27,171	(NA)	437,777	274,298	374,337	(NA)	204,793	562,044	(NA)	6.24	45	44
1899	20,732	(NA)	296,657	146,336	266,051	(NA)	117,208	325,404	(NA)	6.12	31	30
Minnesota:												
1963	5,500	1,587	245,931	1,478,639	165,570	331,649	865,416	2,806,116	159,061	1.44	111	106
1958	5,380	1,433	220,788	1,094,805	149,563	293,859	654,942	2,050,405	108,619	1.38	100	100
1954	5,027	1,316	208,506	865,254	151,132	305,345	560,492	1,594,505	82,188	1.29	94	100
1947	4,563	(NA)	181,514	508,352	145,020	(NA)	358,605	1,021,274	(NA)	1.27	80	89
1939	3,735	(NA)	102,179	143,397	78,023	(NA)	95,273	306,840	(NA)	1.07	46	59
1929	4,315	(NA)	124,231	180,142	103,414	(NA)	132,418	404,995	(NA)	1.28	56	60
1919	5,633	(NA)	140,414	169,843	113,781	(NA)	124,811	327,921	(NA)	1.43	64	61
1909	5,561	(NA)	99,030	62,923	84,767	(NA)	47,471	127,797	(NA)	1.41	45	44
1899	4,096	(NA)	71,182	35,093	64,557	(NA)	29,029	73,394	(NA)	1.47	32	30
Iowa:												
1963	3,496	982	178,199	1,046,675	126,871	256,357	687,022	2,287,001	126,952	1.05	107	106
1958	3,596	945	166,126	812,475	120,663	240,999	537,704	1,684,269	103,193	1.04	100	100
1954	3,320	881	163,669	648,361	122,763	248,683	443,615	1,235,965	73,410	1.02	99	100
1947	2,963	(NA)	140,397	372,285	112,467	(NA)	275,411	671,008	(NA)	0.98	85	89
1939	2,541	(NA)	88,054	114,087	64,773	(NA)	72,889	243,390	(NA)	0.92	53	59
1929	3,317	(NA)	97,414	137,243	81,678	(NA)	102,327	323,820	(NA)	1.01	59	60
1919	5,104	(NA)	98,470	122,168	79,196	(NA)	88,381	221,757	(NA)	1.00	59	61
1909	5,528	(NA)	73,037	43,514	61,635	(NA)	32,542	88,531	(NA)	1.04	44	44
1899	4,828	(NA)	49,579	22,253	44,420	(NA)	18,021	47,092	(NA)	1.02	30	30

See footnotes at end of table.

TABLE 7. General Statistics for Manufacturing Establishments by Geographic Areas: 1963 and Earlier Years--Continued

Geographic area [1]	Establishments [2]		All employees [2]		Production workers			Value added by manufacture, adjusted	Capital expenditures, new [3]	Comparative employment indexes		
	Total	With 20 employees or more	Total	Payroll	Total	Man-hours	Wages			Percent of U.S. employment	Index of employment change	U.S. index of employment change
	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)	($1,000)	(percent)	(1958-100)	(1958=100)
DIVISION AND STATE--Continued												
West North Central--Continued												
Missouri:												
1963	6,540	2,325	391,254	2,235,175	276,158	547,769	1,361,671	4,296,036	211,060	2.31	103	106
1958	6,588	2,215	380,497	1,771,096	271,463	519,349	1,088,712	3,250,817	185,879	2.37	100	100
1954	6,198	2,179	381,873	1,496,742	285,378	552,691	977,327	2,727,266	124,394	2.37	97	100
1947	5,721	(NA)	327,114	826,179	269,394	(NA)	606,825	1,620,887	(NA)	2.29	86	89
1939	4,487	(NA)	220,269	280,667	175,983	(NA)	187,514	581,804	(NA)	2.31	58	59
1929	5,765	(NA)	240,602	332,278	202,879	(NA)	240,369	777,497	(NA)	2.49	63	60
1919	8,175	(NA)	235,772	273,722	193,754	(NA)	194,927	534,616	(NA)	2.40	62	61
1909	8,375	(NA)	177,479	109,837	152,993	(NA)	80,843	219,700	(NA)	2.53	47	44
1899	6,853	(NA)	120,178	60,009	107,704	(NA)	46,714	132,115	(NA)	2.48	32	30
North Dakota:												
1963	459	78	6,507	31,483	4,471	9,117	19,833	72,445	8,064	0.04	103	106
1958	405	79	6,335	26,247	4,398	8,846	16,999	62,643	9,142	0.04	100	100
1954	367	65	5,613	19,228	3,913	8,323	12,517	34,991	16,244	0.03	89	100
1947	361	(NA)	5,209	12,321	3,817	(NA)	8,476	29,431	(NA)	0.04	82	89
1939	342	(NA)	4,075	4,968	2,605	(NA)	2,737	10,984	(NA)	0.04	64	59
1929	373	(NA)	5,017	7,762	4,024	(NA)	5,687	15,637	(NA)	0.05	79	60
1919	755	(NA)	5,033	6,424	4,169	(NA)	5,033	12,198	(NA)	0.05	79	61
1909	752	(NA)	3,425	2,416	2,789	(NA)	1,787	5,464	(NA)	0.05	54	44
1899	337	(NA)	1,510	801	1,358	(NA)	671	2,109	(NA)	0.03	24	30
South Dakota:												
1963	587	115	13,234	70,133	9,649	19,895	48,016	140,042	7,339	0.08	103	106
1958	575	109	12,901	54,786	9,631	18,608	37,452	114,256	5,211	0.08	100	100
1954	546	92	11,543	41,128	8,414	17,990	27,977	77,692	3,444	0.07	89	100
1947	494	87	10,265	25,796	8,062	17,700	19,193	51,398	3,371	0.07	80	89
1939	450	(NA)	7,327	9,036	5,421	(NA)	5,905	19,619	(NA)	0.08	57	59
1929	615	(NA)	7,803	10,691	6,535	(NA)	8,132	22,681	(NA)	0.08	60	60
1919	1,054	(NA)	6,774	8,773	5,588	(NA)	6,751	17,070	(NA)	0.07	53	61
1909	1,020	(NA)	4,284	2,914	3,602	(NA)	2,298	6,394	(NA)	0.06	33	44
1899	624	(NA)	2,512	1,305	2,224	(NA)	1,130	3,046	(NA)	0.05	19	30
Nebraska:												
1963	1,611	474	64,882	348,034	46,985	96,724	228,484	746,597	46,084	0.38	110	106
1958	1,553	412	58,627	265,223	42,902	86,972	174,196	536,317	49,906	0.37	100	100
1954	1,423	378	59,404	223,500	43,431	90,351	150,728	394,222	36,414	0.37	101	100
1947	1,341	(NA)	47,014	119,884	37,325	(NA)	87,400	260,598	(NA)	0.33	80	89
1939	1,093	(NA)	26,183	34,138	18,416	(NA)	20,175	68,139	(NA)	0.27	45	59
1929	1,491	(NA)	34,752	51,347	28,212	(NA)	36,881	119,994	(NA)	0.36	59	60
1919	2,385	(NA)	44,924	60,138	35,387	(NA)	44,513	112,646	(NA)	0.46	77	61
1909	2,500	(NA)	29,444	19,439	24,336	(NA)	13,948	47,938	(NA)	0.42	50	44
1899	1,695	(NA)	20,965	10,950	18,669	(NA)	8,842	34,377	(NA)	0.43	36	30
Kansas:												
1963	2,475	696	114,288	684,449	84,599	176,871	463,229	1,460,374	106,322	0.67	96	106
1958	2,309	643	118,830	590,826	86,641	173,943	403,704	1,171,017	98,959	0.74	100	100
1954	2,139	572	131,432	560,483	98,187	203,102	400,619	1,049,291	53,017	0.82	111	100
1947	1,946	(NA)	74,634	204,840	59,370	(NA)	151,299	461,110	(NA)	0.52	63	89
1939	1,418	(NA)	42,564	56,412	30,935	(NA)	36,088	117,391	(NA)	0.45	36	59
1929	1,916	(NA)	57,341	85,210	47,373	(NA)	63,348	205,367	(NA)	0.59	48	60
1919	3,149	(NA)	72,479	93,581	60,179	(NA)	71,888	161,566	(NA)	0.74	61	61
1909	3,435	(NA)	51,078	33,255	44,215	(NA)	25,904	66,220	(NA)	0.73	43	44
1899	2,299	(NA)	30,731	15,925	27,119	(NA)	12,801	33,271	(NA)	0.63	26	30
South Atlantic:												
1963	35,546	11,809	2,125,095	10,005,566	1,664,675	3,346,570	6,685,219	21,133,530	1,569,360	12.53	113	106
1958	33,425	10,535	1,884,885	7,255,699	1,498,197	2,894,777	4,974,394	14,355,067	1,068,939	11.76	100	100
1954	30,530	9,424	1,777,659	5,696,543	1,466,329	2,847,753	4,072,165	10,657,727	789,320	11.04	94	100
1947	24,000	(NA)	1,523,890	3,371,438	1,344,836	(NA)	2,710,001	6,941,906	677,651	10.66	81	89
1939	16,657	(NA)	1,110,704	1,073,672	977,596	(NA)	818,055	2,216,976	(NA)	11.66	59	59
1929	20,860	(NA)	999,995	1,033,670	912,247	(NA)	825,903	2,458,223	(NA)	10.35	53	60
1919	28,682	(NA)	896,592	940,127	812,122	(NA)	771,839	1,846,999	(NA)	9.11	48	61
1909	28,270	(NA)	715,047	301,652	663,015	(NA)	244,379	591,182	(NA)	10.20	38	44
1899	19,144	(NA)	482,712	153,634	458,344	(NA)	130,864	316,115	(NA)	9.95	26	30
Delaware:												
1963	569	243	58,395	429,626	30,417	61,487	159,025	658,189	88,806	0.34	101	106
1958	569	222	57,830	347,603	29,966	57,283	125,244	419,831	27,926	0.36	100	100
1954	556	209	54,530	267,354	30,988	60,451	104,882	353,083	23,375	0.34	94	100
1947	483	(NA)	34,738	92,858	29,275	(NA)	70,578	183,073	(NA)	0.24	60	89
1939	416	(NA)	23,360	29,114	19,825	(NA)	21,163	54,085	(NA)	0.25	40	59
1929	460	(NA)	26,556	37,407	23,552	(NA)	29,063	69,151	(NA)	0.27	46	60
1919	653	(NA)	33,231	44,914	28,994	(NA)	37,214	79,547	(NA)	0.34	57	61
1909	726	(NA)	23,262	12,618	21,238	(NA)	10,296	21,902	(NA)	0.33	40	44
1899	633	(NA)	21,751	9,794	20,562	(NA)	8,457	16,596	(NA)	0.45	37	30

See footnotes at end of table.

TABLE 7. General Statistics for Manufacturing Establishments by Geographic Areas: 1963 and Earlier Years--Continued

Geographic area [1]	Establishments [2]		All employees [2]		Production workers			Value added by manufacture, adjusted	Capital expenditures, new [3]	Comparative employment indexes		
	Total	With 20 employees or more	Total	Payroll	Total	Man-hours	Wages			Percent of U.S. employment	Index of employment change	U.S. index of employment change
	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)	($1,000)	(percent)	(1958-100)	(1958=100)
DIVISION AND STATE--Continued												
South Atlantic--Con.												
Maryland:												
1963	3,519	1,394	263,672	1,549,834	188,876	375,863	960,491	3,001,468	176,307	1.55	102	106
1958	3,435	1,334	259,097	1,257,423	190,472	368,548	813,332	2,394,414	128,085	1.62	100	100
1954	3,253	1,279	255,447	1,002,037	195,916	384,180	675,056	1,888,585	93,908	1.59	99	100
1947	2,826	(NA)	228,655	612,296	188,696	(NA)	458,282	1,139,240	(NA)	1.60	88	89
1939	2,712	(NA)	166,091	209,193	140,930	(NA)	155,938	420,589	(NA)	1.74	64	59
1929	3,231	(NA)	150,906	195,013	131,099	(NA)	148,835	422,097	(NA)	1.56	58	60
1919	4,725	(NA)	159,362	188,223	139,241	(NA)	146,578	322,092	(NA)	1.62	62	61
1909	4,837	(NA)	120,113	59,053	107,921	(NA)	45,436	116,620	(NA)	1.71	46	44
1899	3,886	(NA)	100,911	39,260	94,170	(NA)	32,414	81,722	(NA)	2.08	39	30
District of Columbia:												
1963	617	167	22,147	147,643	11,263	21,325	64,692	256,813	12,987	0.13	104	106
1958	561	142	21,287	114,004	11,176	21,270	52,800	198,089	14,732	0.13	100	100
1954	484	148	20,706	92,274	11,821	22,390	44,743	157,213	6,536	0.13	100	100
1947	428	156	17,815	55,872	10,007	21,268	27,691	99,067	4,502	0.13	97	100
1939	452	(NA)	14,377	24,920	7,676	(NA)	11,505	43,367	(NA)	0.12	84	89
1929	547	(NA)	14,002	25,449	9,752	(NA)	15,513	52,773	(NA)	0.15	68	59
1919	568	(NA)	13,327	18,537	10,268	(NA)	12,960	37,404	(NA)	0.14	66	60
1909	518	(NA)	9,283	6,835	7,707	(NA)	4,989	15,043	(NA)	0.14	63	61
1899	491	(NA)	7,112	3,895	6,155	(NA)	3,023	8,951	(NA)	0.13	44	44
Virginia:												
1963	4,542	1,573	302,084	1,431,977	239,631	480,228	992,099	3,046,268	231,786	1.78	117	106
1958	4,472	1,381	258,136	986,545	204,357	397,567	686,814	2,122,652	146,463	1.61	100	100
1954	4,398	1,290	242,768	776,820	202,654	394,735	576,844	1,629,041	109,887	1.51	94	100
1947	3,643	(NA)	216,507	483,575	189,942	(NA)	384,293	1,050,623	(NA)	1.51	84	89
1939	2,494	(NA)	150,202	150,359	132,089	(NA)	113,848	376,259	(NA)	1.58	58	59
1929	3,287	(NA)	131,586	147,352	120,273	(NA)	118,089	380,086	(NA)	1.36	51	60
1919	5,487	(NA)	132,842	145,423	118,976	(NA)	119,583	271,131	(NA)	1.35	51	61
1909	5,867	(NA)	114,227	47,256	105,676	(NA)	38,155	94,211	(NA)	1.63	44	44
1899	3,186	(NA)	70,051	23,903	66,223	(NA)	20,274	49,285	(NA)	1.44	27	30
West Virginia:												
1963	1,832	528	117,026	700,058	90,196	179,785	491,275	1,887,148	173,002	0.69	101	106
1958	1,916	519	116,201	573,837	90,390	173,129	411,007	1,268,842	171,937	0.72	100	100
1954	2,027	517	122,390	494,893	97,322	185,651	354,666	988,274	98,883	0.76	105	100
1947	1,602	558	127,354	337,869	108,985	215,639	268,469	663,903	82,332	0.89	110	89
1939	1,094	(NA)	87,741	113,660	74,411	(NA)	87,760	213,284	(NA)	0.92	76	59
1929	1,488	(NA)	93,565	136,291	85,326	(NA)	115,295	251,615	(NA)	0.97	81	60
1919	2,627	(NA)	90,651	118,898	82,615	(NA)	101,310	199,568	(NA)	0.92	78	61
1909	2,586	(NA)	68,864	38,710	63,893	(NA)	33,000	69,072	(NA)	0.98	59	44
1899	1,824	(NA)	34,824	14,519	33,080	(NA)	12,640	29,779	(NA)	0.72	30	30
North Carolina:												
1963	7,784	2,946	530,646	2,092,075	444,400	890,230	1,527,481	4,566,547	314,428	3.13	115	106
1958	7,352	2,628	461,485	1,488,645	391,712	747,353	1,109,707	3,077,929	182,005	2.88	100	100
1954	6,645	2,369	434,934	1,185,629	380,089	719,429	915,683	2,210,463	129,622	2.70	93	100
1947	5,321	(NA)	381,438	758,757	350,177	(NA)	641,917	1,646,030	(NA)	2.67	83	89
1939	3,158	(NA)	293,258	245,879	269,238	(NA)	198,519	544,181	(NA)	3.08	63	59
1929	3,797	(NA)	226,425	198,810	209,826	(NA)	160,868	693,013	(NA)	2.34	49	60
1919	5,690	(NA)	167,848	148,361	156,376	(NA)	124,978	413,707	(NA)	1.70	36	61
1909	4,931	(NA)	128,002	41,259	121,473	(NA)	34,355	94,795	(NA)	1.83	28	44
1899	3,465	(NA)	75,216	16,447	72,322	(NA)	14,052	40,420	(NA)	1.55	16	30
South Carolina:												
1963	3,057	1,076	261,655	1,046,514	221,198	453,962	790,954	2,111,117	179,264	1.54	106	106
1958	2,911	939	225,510	732,149	193,936	381,540	565,014	1,360,135	75,617	1.41	100	100
1954	2,720	834	219,923	634,756	190,119	378,931	486,960	1,040,936	59,629	1.37	98	100
1947	2,135	(NA)	188,760	377,105	175,889	(NA)	330,670	793,915	(NA)	1.32	84	89
1939	1,300	(NA)	136,094	103,171	126,408	(NA)	86,280	169,294	(NA)	1.43	60	59
1929	1,659	(NA)	113,876	86,023	108,777	(NA)	73,223	159,351	(NA)	1.18	50	60
1919	1,821	(NA)	83,982	72,336	78,918	(NA)	61,934	152,301	(NA)	0.85	37	61
1909	1,854	(NA)	76,303	24,117	73,046	(NA)	20,361	46,885	(NA)	1.09	34	44
1899	1,369	(NA)	48,444	10,438	47,025	(NA)	9,130	22,850	(NA)	1.00	21	30
Georgia:												
1963	6,249	2,056	354,023	1,505,556	290,008	582,382	1,073,001	3,254,007	202,163	2.09	113	106
1958	5,860	1,844	314,088	1,074,972	261,099	500,334	775,947	2,102,332	169,871	1.96	100	100
1954	5,655	1,713	303,017	853,496	260,082	503,497	642,582	1,592,411	162,849	1.88	96	100
1947	4,755	(NA)	249,958	484,289	225,838	(NA)	399,862	1,016,079	(NA)	1.75	80	89
1939	3,055	(NA)	176,965	142,021	155,870	(NA)	106,195	280,032	(NA)	1.86	56	39
1929	4,179	(NA)	171,734	140,674	158,774	(NA)	110,435	294,649	(NA)	1.78	55	60
1919	4,608	(NA)	135,263	125,503	122,578	(NA)	100,146	251,098	(NA)	1.38	43	61
1909	4,792	(NA)	112,895	43,867	104,588	(NA)	34,805	85,893	(NA)	1.61	36	44
1899	3,015	(NA)	87,151	23,162	83,336	(NA)	19,958	45,176	(NA)	1.80	28	30

TABLE 7. General Statistics for Manufacturing Establishments by Geographic Areas: 1963 and Earlier Years--Continued

Geographic area	Establishments[2]		All employees[2]		Production workers			Value added by manufacture, adjusted	Capital expenditures, new[3]	Comparative employment indexes		
	Total	With 20 employees or more	Total	Payroll	Total	Man-hours	Wages			Percent of U.S. employment	Index of employment change	U.S. index of employment change
	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)	($1,000)	(percent)	(1958-100)	(1958=100)
DIVISION AND STATE--Continued												
South Atlantic--Con.												
Florida:												
1963	7,377	1,826	215,447	1,102,283	148,386	301,308	626,201	2,351,973	190,617	1.27	126	106
1958	6,349	1,526	171,251	680,521	125,089	247,753	434,529	1,410,843	152,303	1.07	100	100
1954	4,792	1,065	123,944	389,284	97,338	198,489	270,749	797,721	104,631	0.77	72	100
1947	2,807	755	78,665	168,817	66,027	139,890	128,239	349,976	50,052	0.55	46	89
1939	1,976	(NA)	62,616	55,355	51,149	(NA)	36,847	115,885	(NA)	0.66	37	59
1929	2,212	(NA)	71,345	66,651	64,868	(NA)	54,582	135,488	(NA)	0.74	42	60
1919	2,503	(NA)	80,086	77,932	74,156	(NA)	67,136	120,151	(NA)	0.81	47	61
1909	2,159	(NA)	62,098	27,937	57,473	(NA)	22,982	46,761	(NA)	0.89	36	44
1899	1,275	(NA)	37,252	12,216	35,471	(NA)	10,916	21,336	(NA)	0.77	22	30
East South Central:												
1963	14,196	4,939	891,874	4,149,847	713,631	1,416,146	2,908,288	9,383,192	747,054	5.26	114	106
1958	13,800	4,381	783,474	3,099,253	626,738	1,210,267	2,189,760	6,389,027	555,046	4.88	100	100
1954	12,854	4,034	729,538	2,364,543	601,493	1,166,807	1,713,827	4,701,863	395,991	4.53	93	100
1947	10,911	(NA)	635,445	1,363,617	559,827	(NA)	1,096,474	2,884,391	256,002	4.45	81	89
1939	7,024	(NA)	410,008	389,733	355,096	(NA)	288,656	823,101	(NA)	4.30	52	59
1929	9,860	(NA)	416,905	440,520	377,870	(NA)	348,734	924,428	(NA)	4.32	53	60
1919	14,094	(NA)	364,878	367,639	327,352	(NA)	296,470	660,223	(NA)	3.71	47	61
1909	15,381	(NA)	288,257	131,200	261,772	(NA)	102,192	294,325	(NA)	4.11	37	44
1899	10,058	(NA)	188,412	66,388	177,208	(NA)	56,004	148,579	(NA)	3.88	24	30
Kentucky:												
1963	2,946	1,025	180,460	959,001	140,536	280,442	657,409	2,548,531	223,561	1.06	111	106
1958	2,903	927	162,243	721,421	124,704	241,746	491,809	1,769,269	112,525	1.01	100	100
1954	2,651	851	151,113	553,203	119,218	233,719	383,945	1,236,260	124,037	0.94	93	100
1947	2,245	(NA)	129,553	304,782	110,648	(NA)	236,085	743,322	(NA)	0.91	80	89
1939	1,582	(NA)	76,504	89,004	62,481	(NA)	61,592	186,485	(NA)	0.82	47	59
1929	2,246	(NA)	88,583	113,623	77,825	(NA)	88,644	236,080	(NA)	0.92	55	60
1919	3,767	(NA)	79,261	85,845	68,726	(NA)	66,261	158,498	(NA)	0.81	49	61
1909	4,776	(NA)	74,010	37,491	65,400	(NA)	27,888	111,975	(NA)	1.06	46	44
1899	3,648	(NA)	56,091	22,639	51,735	(NA)	18,454	59,102	(NA)	1.16	35	30
Tennessee:												
1963	4,787	1,809	339,108	1,542,227	266,969	530,222	1,040,681	3,302,688	244,897	2.00	120	106
1958	4,508	1,516	282,862	1,103,409	220,823	426,647	739,504	2,207,073	209,712	1.76	100	100
1954	4,058	1,366	267,496	882,644	214,027	418,378	612,461	1,678,786	152,698	1.66	95	100
1947	3,345	(NA)	222,300	474,978	193,197	(NA)	371,637	961,385	(NA)	1.56	79	89
1939	2,225	(NA)	152,179	149,525	131,024	(NA)	108,828	318,378	(NA)	1.60	54	59
1929	2,855	(NA)	142,020	149,080	128,400	(NA)	115,877	322,898	(NA)	1.47	50	60
1919	4,426	(NA)	107,725	105,861	94,564	(NA)	80,687	210,201	(NA)	1.10	38	61
1909	4,609	(NA)	82,257	37,438	73,840	(NA)	28,252	76,201	(NA)	1.17	29	44
1899	3,116	(NA)	49,292	17,775	45,963	(NA)	14,728	38,190	(NA)	1.02	17	30
Alabama:												
1963	4,079	1,257	243,800	1,162,409	197,646	390,979	842,277	2,515,011	147,395	1.44	106	106
1958	3,956	1,195	229,830	920,009	188,743	363,169	677,598	1,770,510	165,144	1.43	100	100
1954	3,893	1,152	220,077	690,015	188,414	357,780	528,618	1,319,192	82,248	1.37	96	100
1947	3,336	(NA)	206,239	444,887	185,700	(NA)	372,510	877,416	(NA)	1.44	95	91
1939	1,982	(NA)	129,261	114,706	115,698	(NA)	91,106	245,577	(NA)	1.36	60	61
1929	2,848	(NA)	130,034	126,390	119,559	(NA)	102,005	258,125	(NA)	1.35	60	62
1919	3,522	(NA)	116,440	116,974	106,679	(NA)	98,482	190,965	(NA)	1.18	54	63
1909	3,398	(NA)	78,203	33,849	72,148	(NA)	27,284	62,519	(NA)	1.12	36	45
1899	2,000	(NA)	54,970	16,971	52,711	(NA)	14,912	34,112	(NA)	1.13	25	31
Mississippi:												
1963	2,384	848	128,506	486,210	108,480	214,503	367,921	1,016,962	131,201	0.76	118	106
1958	2,433	743	108,539	354,414	92,468	178,705	280,849	642,175	67,665	0.68	100	100
1954	2,252	665	90,852	238,681	79,834	156,930	188,803	467,625	37,008	0.56	84	100
1947	1,985	(NA)	77,353	138,970	70,282	(NA)	116,242	302,268	(NA)	0.54	71	89
1939	1,235	(NA)	52,064	36,498	45,893	(NA)	27,130	72,661	(NA)	0.55	48	59
1929	1,911	(NA)	56,268	51,427	52,086	(NA)	42,208	107,325	(NA)	0.58	52	60
1919	2,379	(NA)	61,452	58,959	57,383	(NA)	51,040	100,559	(NA)	0.62	57	61
1909	2,598	(NA)	53,787	22,422	50,384	(NA)	18,768	43,630	(NA)	0.77	50	44
1899	1,294	(NA)	28,059	9,003	26,799	(NA)	7,910	17,175	(NA)	0.58	26	30
West South Central:												
1963	20,237	5,920	864,662	4,651,437	625,937	1,279,909	2,897,047	10,941,568	915,046	5.10	109	106
1958	18,659	5,261	794,846	3,645,669	580,779	1,152,074	2,349,670	7,791,482	924,053	4.95	100	100
1954	16,469	4,601	730,769	2,778,600	556,369	1,128,593	1,868,083	5,721,035	721,065	4.53	92	100
1947	13,183	(NA)	550,760	1,334,116	456,641	(NA)	996,258	3,030,203	457,920	3.85	69	89
1939	9,509	(NA)	330,516	362,542	258,882	(NA)	234,980	815,276	(NA)	3.47	42	59
1929	10,576	(NA)	341,079	416,742	297,743	(NA)	316,474	950,463	(NA)	3.53	43	60
1919	13,239	(NA)	323,642	365,389	282,751	(NA)	290,125	724,099	(NA)	3.29	41	61
1909	12,339	(NA)	227,958	123,028	204,520	(NA)	97,646	243,312	(NA)	3.25	29	44
1899	7,174	(NA)	121,643	50,049	113,388	(NA)	42,715	98,803	(NA)	2.51	15	30

TABLE 7. General Statistics for Manufacturing Establishments by Geographic Areas: 1963 and Earlier Years--Continued

Geographic area [1]	Establishments [2]		All employees [2]		Production workers			Value added by manufacture, adjusted	Capital expenditures, new [3]	Comparative employment indexes		
	Total	With 20 employees or more	Total	Payroll	Total	Man-hours	Wages			Percent of U.S. employment	Index of employment change	U.S. index of employment change
	(number	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)	($1,000)	(percent)	(1958-100)	(1958=100)
DIVISION AND STATE--Continued												
West South Central--Continued												
Arkansas:												
1963	2,859	840	113,658	439,572	95,551	191,828	331,715	960,886	73,383	0.67	128	106
1958	2,589	666	88,724	293,043	74,429	144,699	220,862	591,745	48,227	0.55	100	100
1954	2,428	568	79,052	221,763	67,481	134,479	171,109	457,047	42,715	0.49	89	100
1947	1,926	(NA)	65,802	125,200	58,725	(NA)	102,838	267,516	(NA)	0.46	74	89
1939	1,115	(NA)	41,183	33,352	35,672	(NA)	24,205	66,444	(NA)	0.43	46	59
1929	1,731	(NA)	48,747	49,446	44,205	(NA)	39,503	94,255	(NA)	0.50	55	60
1919	3,044	(NA)	54,234	56,207	49,693	(NA)	46,909	96,953	(NA)	0.55	61	61
1909	2,925	(NA)	48,275	22,574	44,982	(NA)	19,113	39,981	(NA)	0.69	54	44
1899	1,746	(NA)	33,074	11,447	31,525	(NA)	10,184	21,600	(NA)	0.68	37	30
Louisiana:												
1963	3,222	954	139,511	769,410	104,720	215,445	526,177	1,915,625	210,837	0.82	102	106
1958	3,156	935	136,944	621,397	103,519	205,887	426,345	1,429,580	173,383	0.85	100	100
1954	3,020	897	145,250	533,947	114,378	232,019	375,730	1,181,649	174,396	0.90	106	100
1947	2,388	949	132,463	309,869	111,552	231,384	229,671	694,062	97,210	0.93	97	89
1939	1,779	(NA)	87,770	85,273	70,453	(NA)	54,454	198,527	(NA)	0.92	64	59
1929	1,989	(NA)	97,551	107,960	87,345	(NA)	83,867	246,497	(NA)	1.01	71	60
1919	2,489	(NA)	109,853	116,718	97,742	(NA)	93,858	243,886	(NA)	1.12	80	61
1909	2,516	(NA)	84,268	42,394	76,165	(NA)	33,386	89,084	(NA)	1.20	62	44
1899	1,826	(NA)	44,454	17,659	40,878	(NA)	14,725	35,994	(NA)	0.92	32	30
Oklahoma:												
1963	2,575	648	97,691	551,677	64,195	130,085	294,968	978,774	63,562	0.58	106	106
1958	2,409	572	91,587	446,358	59,739	118,407	248,548	724,998	61,927	0.57	100	107
1954	2,131	524	89,257	363,627	60,572	122,530	212,183	580,633	51,740	0.55	97	100
1947	1,740	(NA)	55,441	143,634	44,349	(NA)	105,327	341,149	(NA)	0.39	61	89
1939	1,530	(NA)	37,585	47,170	27,642	(NA)	29,957	101,782	(NA)	0.40	41	59
1929	1,658	(NA)	38,638	57,604	31,695	(NA)	41,277	149,404	(NA)	0.40	42	60
1919	2,316	(NA)	35,445	46,234	29,048	(NA)	34,423	87,551	(NA)	0.36	38	61
1909	2,310	(NA)	15,336	9,285	13,143	(NA)	7,240	19,530	(NA)	0.22	16	44
1899	495	(NA)	2,650	1,113	2,381	(NA)	894	2,703	(NA)	0.05	2	30
Texas:												
1963	11,581	3,478	513,802	2,890,778	361,471	742,551	1,744,187	7,086,283	567,264	3.03	108	106
1958	10,505	3,088	477,591	2,284,871	343,092	683,081	1,453,915	5,045,159	640,516	2.98	100	100
1954	8,890	2,612	417,210	1,659,263	313,938	639,565	1,109,061	3,501,706	452,214	2.59	87	100
1947	7,129	(NA)	297,054	755,413	242,015	(NA)	558,422	1,727,476	(NA)	2.08	62	89
1939	5,085	(NA)	163,978	196,747	125,115	(NA)	126,364	448,523	(NA)	1.72	34	59
1929	5,198	(NA)	156,143	201,732	134,498	(NA)	151,827	460,307	(NA)	1.62	33	60
1919	5,390	(NA)	124,110	146,230	106,268	(NA)	114,935	295,709	(NA)	1.26	26	61
1909	4,588	(NA)	80,079	48,775	70,230	(NA)	37,907	94,717	(NA)	1.14	17	44
1899	3,107	(NA)	41,465	19,830	38,604	(NA)	16,912	38,506	(NA)	0.85	9	30
Mountain:												
1963	8,527	2,022	283,888	1,706,424	195,759	392,529	1,061,325	3,471,834	247,009	1.67	124	106
1958	7,631	1,761	228,785	1,145,276	167,863	334,293	780,285	2,244,373	185,501	1.42	100	100
1954	6,685	1,467	185,006	737,501	141,658	282,300	522,728	1,450,802	125,440	1.14	81	100
1947	5,044	(NA)	140,477	375,900	115,144	(NA)	290,285	783,771	95,023	0.98	61	89
1939	3,787	(NA)	89,409	119,074	67,011	(NA)	79,099	269,381	(NA)	0.94	39	59
1929	4,319	(NA)	118,778	181,403	102,492	(NA)	144,486	370,056	(NA)	1.23	52	60
1919	6,675	(NA)	122,668	169,004	105,794	(NA)	137,075	303,751	(NA)	1.25	54	61
1909	5,254	(NA)	85,013	69,392	75,435	(NA)	56,870	135,304	(NA)	1.21	37	44
1899	3,146	(NA)	47,983	31,610	44,497	(NA)	27,714	76,220	(NA)	0.99	21	30
Montana:												
1963	976	188	20,247	109,271	16,015	31,742	82,796	236,230	38,587	0.12	100	106
1958	929	174	20,315	94,827	15,762	30,190	70,428	191,245	19,898	0.13	100	100
1954	868	172	18,519	72,090	14,677	27,762	54,098	141,234	20,574	0.11	101	100
1947	650	(NA)	15,838	42,770	13,380	(NA)	34,791	90,845	(NA)	0.11	78	89
1939	552	(NA)	11,939	17,286	8,802	(NA)	11,697	38,828	(NA)	0.12	59	59
1929	589	(NA)	17,135	29,470	14,869	(NA)	24,215	61,249	(NA)	0.18	93	62
1919	1,235	(NA)	18,893	28,623	16,640	(NA)	23,968	43,079	(NA)	0.19	103	63
1909	677	(NA)	13,035	12,955	11,655	(NA)	10,901	24,092	(NA)	0.19	71	45
1899	395	(NA)	10,362	8,163	9,854	(NA)	7,377	22,677	(NA)	0.21	56	31
Idaho:												
1963	1,103	254	30,487	162,560	24,129	48,526	116,628	366,411	28,366	0.18	110	106
1958	1,065	244	27,582	128,146	22,149	42,992	96,509	255,775	19,196	0.17	100	100
1954	981	204	24,197	94,221	20,124	39,259	73,188	188,575	19,226	0.15	88	100
1947	664	173	16,907	45,748	14,602	31,369	37,904	109,694	11,447	0.12	61	89
1939	498	(NA)	11,719	14,697	9,854	(NA)	11,490	29,788	(NA)	0.12	42	59
1929	562	(NA)	17,023	25,488	15,648	(NA)	22,452	44,489	(NA)	0.18	62	60
1919	803	(NA)	15,022	20,639	13,575	(NA)	18,014	35,659	(NA)	0.15	54	61
1909	725	(NA)	9,078	6,482	8,220	(NA)	5,498	12,480	(NA)	0.13	33	44
1899	287	(NA)	1,644	884	1,552	(NA)	818	1,563	(NA)	0.03	6	30

See footnotes at end of table.

TABLE 7. General Statistics for Manufacturing Establishments by Geographic Areas: 1963 and Earlier Years--Continued

Geographic area[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture, adjusted	Capital expenditures, new[3]	Comparative employment indexes		
	Total	With 20 employees or more	Total	Payroll	Total	Man-hours	Wages			Percent of U.S. employment	Index of employment change	U.S. index of employment change
	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)	($1,000)	(percent)	(1958=100)	(1958=100)
DIVISION AND STATE--Continued												
Mountain--Continued												
Wyoming:												
1963	342	69	6,797	37,956	4,636	9,115	24,714	81,678	13,971	0.04	105	106
1958	330	57	6,442	31,603	4,699	9,052	22,245	62,558	6,985	0.04	100	100
1954	328	49	6,261	26,890	4,587	9,160	18,777	51,361	6,899	0.04	97	100
1947	256	55	5,607	16,696	4,285	8,888	12,291	34,957	10,235	0.04	87	89
1939	300	(NA)	4,416	6,641	3,351	(NA)	4,613	15,336	(NA)	0.05	68	59
1929	248	(NA)	7,154	12,544	6,258	(NA)	10,255	33,628	(NA)	0.07	111	60
1919	437	(NA)	7,108	12,227	6,271	(NA)	10,587	38,142	(NA)	0.07	110	61
1909	268	(NA)	3,130	2,392	2,867	(NA)	2,081	3,641	(NA)	0.04	49	44
1899	139	(NA)	2,147	1,300	2,060	(NA)	1,209	1,899	(NA)	0.04	33	30
Colorado:												
1963	2,453	593	93,722	596,011	63,990	128,458	369,108	1,193,828	68,026	0.55	121	106
1958	2,274	535	77,505	404,964	55,084	111,966	265,209	781,943	50,713	0.49	100	100
1954	2,069	490	64,446	254,754	47,941	95,782	172,995	472,433	30,121	0.40	81	100
1947	1,602	425	54,071	144,207	44,153	92,627	109,734	286,774	32,189	0.38	70	89
1939	1,219	(NA)	32,234	43,953	23,388	(NA)	28,038	90,330	(NA)	0.34	42	59
1929	1,548	(NA)	39,113	57,221	32,890	(NA)	43,640	122,331	(NA)	0.40	50	60
1919	2,230	(NA)	40,786	53,770	33,759	(NA)	41,020	97,195	(NA)	0.41	53	61
1909	2,034	(NA)	32,393	25,560	28,067	(NA)	19,912	49,553	(NA)	0.46	42	44
1899	1,323	(NA)	21,368	13,766	19,498	(NA)	11,708	28,317	(NA)	0.44	28	30
New Mexico:												
1963	741	169	15,324	82,011	10,156	20,696	47,247	149,641	10,357	0.09	112	106
1958	668	153	13,740	59,428	9,795	19,203	37,950	107,643	24,545	0.08	100	100
1954	593	101	9,709	32,938	7,083	14,154	22,185	65,687	6,585	0.06	70	100
1947	431	(NA)	6,696	14,964	5,530	(NA)	11,438	32,136	(NA)	0.05	49	89
1939	262	(NA)	4,107	4,182	3,219	(NA)	2,875	8,640	(NA)	0.04	30	59
1929	250	(NA)	5,070	6,831	4,476	(NA)	5,565	11,278	(NA)	0.05	37	60
1919	387	(NA)	6,310	7,686	5,736	(NA)	6,658	10,129	(NA)	0.06	46	61
1909	313	(NA)	4,478	2,974	4,143	(NA)	2,591	4,637	(NA)	0.06	33	44
1899	174	(NA)	2,578	1,290	2,490	(NA)	1,199	2,062	(NA)	0.05	19	30
Arizona:												
1963	1,519	340	57,039	348,185	38,646	77,529	210,498	627,141	49,451	0.34	141	106
1958	1,158	257	40,563	213,289	29,980	61,387	148,325	360,173	27,698	0.25	100	100
1954	817	175	26,210	110,684	20,267	42,319	80,563	192,497	13,800	0.16	65	100
1947	544	125	14,188	39,333	11,167	24,263	29,680	83,829	8,328	0.10	35	89
1939	313	(NA)	7,996	10,988	5,905	(NA)	6,955	31,625	(NA)	0.08	20	59
1929	348	(NA)	12,209	19,343	10,550	(NA)	15,075	32,289	(NA)	0.13	30	60
1919	399	(NA)	9,652	14,725	8,297	(NA)	11,658	27,478	(NA)	0.10	24	61
1909	311	(NA)	6,941	6,303	6,441	(NA)	5,505	16,656	(NA)	0.10	17	44
1899	154	(NA)	3,331	2,557	3,126	(NA)	2,287	12,562	(NA)	0.07	8	30
Utah:												
1963	1,110	336	53,504	328,226	33,407	66,982	181,973	710,627	29,601	0.32	142	106
1958	1,000	296	37,604	185,924	26,717	52,085	120,751	417,445	31,311	0.23	100	100
1954	852	234	29,947	120,623	22,553	44,790	82,442	276,343	23,385	0.19	81	100
1947	771	(NA)	24,503	63,773	19,963	(NA)	48,031	128,250	(NA)	0.17	67	89
1939	549	(NA)	15,537	18,970	11,467	(NA)	11,873	43,341	(NA)	0.16	42	59
1929	651	(NA)	18,510	26,107	15,601	(NA)	19,699	56,727	(NA)	0.19	50	60
1919	1,035	(NA)	21,526	26,524	18,442	(NA)	20,931	45,831	(NA)	0.22	58	61
1909	749	(NA)	13,445	10,366	11,785	(NA)	8,400	20,724	(NA)	0.19	37	44
1899	575	(NA)	6,012	3,263	5,413	(NA)	2,763	6,541	(NA)	0.12	16	30
Nevada:												
1963	283	73	6,768	42,204	4,780	9,481	28,361	106,278	8,650	0.04	134	106
1958	207	45	5,034	27,095	3,677	7,418	18,868	67,591	5,155	0.03	100	100
1954	177	42	5,717	25,301	4,426	9,074	18,480	62,672	4,850	0.03	114	100
1947	126	33	2,667	8,409	2,064	4,660	6,416	17,286	2,959	0.02	53	89
1939	94	(NA)	1,461	2,357	1,025	(NA)	1,558	11,493	(NA)	0.02	29	59
1929	123	(NA)	2,564	4,399	2,200	(NA)	3,585	8,065	(NA)	0.03	51	60
1919	149	(NA)	3,371	4,810	3,074	(NA)	4,239	6,238	(NA)	0.03	67	61
1909	177	(NA)	2,513	2,360	2,257	(NA)	1,982	3,521	(NA)	0.04	50	44
1899	99	(NA)	541	387	504	(NA)	353	599	(NA)	0.01	11	30
Pacific:												
1963	43,307	11,813	1,799,103	11,880,636	1,193,101	2,357,536	6,711,145	22,112,058	1,290,399	10.60	113	106
1958	39,736	10,414	1,595,031	8,806,116	1,127,873	2,211,125	5,440,014	15,666,295	1,057,392	9.95	100	100
1954	36,047	9,188	1,411,108	6,325,658	1,059,964	2,073,588	4,261,171	11,364,479	776,435	8.76	88	100
1947[6]	24,132	(NA)	913,715	2,820,152	745,869	(NA)	2,139,537	5,544,019	553,678	6.39	57	89
1939	17,023	(NA)	548,424	787,598	432,856	(NA)	554,869	1,623,210	(NA)	5.75	34	59
1929[6]	18,154	(NA)	555,534	909,964	471,246	(NA)	670,599	1,922,882	(NA)	5.75	35	60
1919	17,759	(NA)	504,368	704,652	442,549	(NA)	583,742	1,337,093	(NA)	5.12	32	61
1909	14,231	(NA)	253,627	195,761	222,169	(NA)	157,866	377,639	(NA)	3.61	16	44
1899	8,599	(NA)	137,747	78,088	129,121	(NA)	66,625	154,384	(NA)	2.84	9	30

See footnotes at end of table.

TABLE 7. General Statistics for Manufacturing Establishments by Geographic Areas: 1963 and Earlier Years--Continued

Geographic area [1]	Establishments [2]		All employees [2]		Production workers			Value added by manufacture, adjusted	Capital expenditures, new [3]	Comparative employment indexes		
	Total	With 20 employees or more	Total	Payroll	Total	Man-hours	Wages			Percent of U.S. employment	Index of employment change	U.S. index of employment change
	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)	($1,000)	(percent)	(1958-100)	(1958-100)
DIVISION AND STATE--Continued												
Pacific--Continued												
Washington:												
1963	5,250	1,233	224,375	1,479,092	152,161	297,309	881,384	3,028,577	143,415	1.41	104	106
1958	5,065	1,157	215,004	1,173,263	157,260	305,811	761,376	2,166,632	160,445	1.34	100	100
1954	4,929	1,152	194,071	854,093	148,759	280,777	594,668	1,549,060	147,130	1.21	90	100
1947	3,409	(NA)	144,252	437,802	123,442	(NA)	354,445	874,021	(NA)	1.01	67	89
1939	2,858	(NA)	99,119	142,565	82,261	(NA)	108,220	267,716	(NA)	1.04	46	59
1929	3,672	(NA)	128,740	196,575	114,830	(NA)	160,671	367,149	(NA)	1.33	60	60
1919	4,356	(NA)	144,331	222,482	131,241	(NA)	192,473	361,907	(NA)	1.47	67	61
1909	3,674	(NA)	76,854	59,593	69,120	(NA)	49,766	102,859	(NA)	1.10	36	44
1899	1,926	(NA)	33,626	19,129	31,523	(NA)	17,065	32,554	(NA)	0.69	16	30
Oregon:												
1963	4,881	1,225	145,164	819,559	117,596	226,357	617,095	1,574,816	132,014	0.86	108	106
1958	5,072	1,151	133,976	648,614	110,188	209,427	499,817	1,222,224	123,339	0.84	100	100
1954	5,870	1,189	135,309	566,671	114,464	214,740	447,741	1,037,456	67,811	0.84	101	100
1947	3,075	970	105,591	317,827	92,144	182,229	265,837	675,017	61,669	0.74	79	89
1939	1,903	(NA)	67,222	87,938	57,487	(NA)	69,574	156,696	(NA)	0.71	50	59
1929	2,463	(NA)	73,865	106,242	65,505	(NA)	86,829	206,542	(NA)	0.76	55	60
1919	2,478	(NA)	64,596	93,906	57,832	(NA)	80,067	158,763	(NA)	0.66	48	61
1909	2,246	(NA)	32,223	23,949	28,750	(NA)	19,902	42,452	(NA)	0.46	24	44
1899	1,406	(NA)	15,602	8,044	14,459	(NA)	6,822	15,804	(NA)	0.32	12	30
California:												
1963	32,201	9,079	1,398,611	9,433,245	899,932	1,791,421	5,114,656	17,162,564	985,114	8.24	115	106
1958	28,735	7,858	1,217,348	6,876,274	838,671	1,656,699	4,107,169	12,047,983	753,163	7.59	100	100
1954	24,509	6,642	1,053,255	4,807,399	773,686	1,534,909	3,151,410	8,597,453	549,801	6.54	86	100
1947	17,648	4,991	663,872	2,064,523	530,283	1,070,270	1,519,255	3,994,981	410,533	4.64	54	89
1939	11,558	(NA)	357,098	533,744	271,290	(NA)	358,734	1,122,545	(NA)	3.75	29	59
1929	12,019	(NA)	352,929	607,147	290,911	(NA)	423,099	1,349,191	(NA)	3.65	29	60
1919	10,282	(NA)	276,381	368,702	236,932	(NA)	295,726	742,493	(NA)	2.81	23	61
1909	7,659	(NA)	133,499	107,096	115,296	(NA)	84,141	204,522	(NA)	1.90	11	44
1899	4,997	(NA)	84,101	47,385	77,224	(NA)	39,890	92,491	(NA)	1.73	7	30
Alaska:												
1963	303	73	5,809	39,733	4,690	9,239	30,539	84,954	14,481	0.03	121	106
1958	246	69	4,807	25,716	3,931	7,258	19,850	64,595	3,264	0.02	100	100
1954 [7]	219	68	4,092	20,365	3,531	7,048	16,546	40,235	(NA)	0.02	85	100
1939	230	(NA)	5,467	8,032	4,816	(NA)	6,883	17,899	(NA)	0.06	114	59
1919	147	(NA)	7,316	10,896	6,575	(NA)	8,839	22,013	(NA)	0.11	152	60
1909	152	(NA)	3,479	2,328	3,099	(NA)	1,948	6,220	(NA)	0.04	72	61
1904	82	(NA)	2,164	1,417	1,938	(NA)	1,096	4,503	(NA)	0.03	45	44
1899	48	(NA)	(NA)	1,492	2,260	(NA)	1,375	2,432	(NA)	(NA)	(NA)	30
Hawaii:												
1963	672	203	25,144	109,007	18,722	33,210	67,471	261,147	15,375	0.15	104	106
1958	618	179	23,896	82,249	17,823	31,930	51,802	164,861	17,181	0.14	100	100
1954 [7]	520	137	24,381	77,130	19,524	36,114	50,806	140,275	11,693	0.15	102	100
1939	474	(NA)	19,518	15,319	17,002	(NA)	11,458	58,354	(NA)	0.14	82	59
1919	496	(NA)	11,744	8,666	9,969	(NA)	6,637	51,917	(NA)	0.12	42	61
1909	500	(NA)	7,572	2,795	5,904	(NA)	2,109	21,586	(NA)	0.11	32	44
1899	222	(NA)	4,418	2,038	3,655	(NA)	1,473	11,103	(NA)	0.09	18	30
STANDARD CONSOLIDATED AREAS												
Chicago, Ill.-Northwestern Indiana:												
1963	14,384	5,464	958,598	6,194,787	669,642	1,344,108	3,780,730	11,939,525	715,505	5.65	100	106
1958	14,285	5,117	957,232	5,213,395	663,941	1,297,384	3,177,151	9,577,938	728,237	5.96	100	100
1954	13,643	4,989	991,642	4,545,600	725,278	1,432,378	2,921,573	7,959,831	430,324	6.16	104	100
1947	12,409	(NA)	952,768	3,012,712	762,041	(NA)	2,191,174	5,561,913	(NA)	6.66	99	89
1939	9,116	(NA)	(NA)	(NA)	481,438	(NA)	(NA)	1,904,419	(NA)	(NA)	(NA)	59
New York, N.Y.-Northeastern New Jersey:												
1963	49,905	16,081	1,779,320	10,767,540	1,191,047	2,317,063	5,786,583	19,133,718	723,159	10.49	99	106
1958	51,289	15,645	1,796,955	9,045,255	1,222,699	2,332,827	4,047,273	15,267,750	630,519	11.21	100	100
1954	51,403	15,551	1,835,339	7,804,905	1,336,116	2,566,509	4,714,688	13,115,922	444,124	11.40	102	100
1947	48,281	(NA)	1,598,662	4,919,631	1,269,283	(NA)	3,485,822	9,310,900	(NA)	11.18	89	89
1939	32,132	(NA)	1,116,708	1,646,817	867,953	(NA)	1,062,156	3,126,135	(NA)	11.72	62	59
1929	36,923	(NA)	1,110,942	1,988,775	910,870	(NA)	1,399,940	4,452,465	(NA)	11.50	62	60
1919	42,293	(NA)	(NA)	(NA)	1,057,677	(NA)	1,300,273	3,592,026	(NA)	(NA)	(NA)	61

See footnotes at end of table.

TABLE 7. General Statistics for Manufacturing Establishments by Geographic Areas: 1963 and Earlier Years—Continued

Geographic area [1]	Establishments [2]		All employees [2]		Production workers			Value added by manufacture, adjusted	Capital expenditures, new [3]	Comparative employment indexes		
	Total	With 20 employees or more	Total	Payroll	Total	Man-hours	Wages			Percent of U.S. employment	Index of employment change	U.S. index of employment change
	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)	($1,000)	(percent)	(1958-100)	(1958-100)
SELECTED STANDARD METROPOLITAN STATISTICAL AREAS (With 40,000 or more manufacturing employees) [4]												
Akron, Ohio:												
1963	854	314	90,680	638,865	56,350	113,574	359,569	1,014,037	62,978	0.53	102	106
1958	824	280	88,572	501,515	59,279	110,094	300,217	808,990	58,573	0.55	100	100
1954	780	271	97,600	445,425	67,492	129,718	289,011	676,452	35,876	0.61	110	100
1947	562	216	101,245	304,759	81,553	(NA)	232,044	493,223	(NA)	0.66	106	89
1939	384	(NA)	(NA)	(NA)	43,361	(NA)	69,581	177,272	(NA)	0.55	59	59
Albany-Schenectady-Troy, N.Y.:												
1963	731	271	61,749	394,847	40,974	82,157	229,599	691,524	30,861	0.36	86	106
1958	765	281	71,516	385,042	45,278	88,284	211,774	640,902	31,328	0.45	100	100
1954	802	298	85,492	387,793	57,904	115,166	228,039	634,665	49,343	0.53	120	100
1947	(NA)	(NA)	78,785	(NA)	(NA)	(NA)	(NA)	361,844	(NA)	0.55	110	89
1939	601	(NA)	(NA)	(NA)	42,311	(NA)	(NA)	140,398	(NA)	(NA)	(NA)	59
Allentown-Bethlehem-Easton, Pa.-N.J.:												
1963	1,030	552	93,751	517,947	69,815	131,773	322,800	833,279	55,363	0.55	100	106
1958	1,022	539	93,907	430,094	70,296	127,516	271,349	683,803	44,658	0.59	100	100
1954	1,007	538	94,208	354,288	74,271	140,359	239,744	593,489	43,417	0.59	100	100
1947	898	(NA)	88,614	222,372	76,351	(NA)	177,547	360,669	(NA)	0.62	94	89
1939	662	(NA)	67,583	80,781	59,181	(NA)	62,891	158,236	(NA)	0.71	72	59
1929	783	(NA)	72,461	107,132	64,919	(NA)	86,508	216,477	(NA)	0.75	77	60
1919	1,169	(NA)	(NA)	(NA)	64,972	(NA)	72,379	180,335	(NA)	(NA)	(NA)	61
Anaheim-Santa Ana-Garden Grove, Calif.:												
1963	1,444	393	96,885	687,335	53,849	109,233	325,836	1,198,108	68,304	0.57	257	106
1958	833	215	31,770	175,935	21,639	44,059	106,394	315,305	24,459	0.20	100	100
1954	539	129	15,755	64,804	11,951	23,437	43,488	115,900	14,904	0.09	42	100
1947	299	(NA)	6,100	16,761	4,723	(NA)	11,974	31,158	(NA)	0.04	16	89
1939	133	(NA)	(NA)	(NA)	2,113	(NA)	2,127	8,254	(NA)	(NA)	(NA)	59
Atlanta, Ga.:												
1963	1,487	568	95,696	538,629	68,086	139,361	328,812	1,153,171	50,257	0.56	115	106
1958	1,361	523	83,534	379,717	61,456	119,447	232,306	711,947	57,783	0.52	100	100
1954	1,164	450	81,966	300,207	63,018	125,605	197,221	561,051	24,901	0.50	97	100
1947	943	(NA)	51,002	115,437	42,410	(NA)	83,980	242,767	(NA)	0.36	61	89
1939	637	(NA)	(NA)	(NA)	28,821	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	59
Baltimore, Md.:												
1963	2,072	857	190,512	1,184,343	134,049	267,491	729,197	2,355,600	124,067	1.12	96	106
1958	2,112	866	197,814	1,011,390	141,635	274,599	641,651	1,978,533	83,982	1.23	100	100
1954	2,015	856	196,138	808,905	147,695	291,251	538,199	1,575,794	76,393	1.21	98	100
1947	1,887	(NA)	174,960	491,941	143,343	(NA)	367,098	921,056	(NA)	1.22	88	89
1939	1,976	(NA)	(NA)	(NA)	109,377	(NA)	(NA)	348,364	(NA)	(NA)	(NA)	59
Binghamton, N.Y.-Pa.:												
1963	404	158	41,639	259,012	26,053	50,685	125,178	341,677	19,876	0.25	114	106
1958	431	170	46,477	227,764	30,728	57,981	121,770	310,640	14,372	0.29	100	100
1954	289	137	45,929	176,610	32,523	60,697	112,853	268,720	15,215	0.28	99	100
1947	237	99	35,769	105,978	30,961	(NA)	86,793	159,879	8,183	0.25	77	89
1939	201	(NA)	(NA)	(NA)	27,194	(NA)	(NA)	61,205	(NA)	(NA)	(NA)	59
Birmingham, Ala.:												
1963	674	282	59,358	362,188	42,964	85,435	240,055	850,916	35,876	0.35	93	106
1958	675	291	63,495	335,698	47,154	93,871	225,974	587,027	42,760	0.40	100	100
1954	605	266	60,663	253,862	46,169	89,227	170,682	481,580	31,518	0.38	96	100
1947	529	(NA)	53,359	138,011	44,767	(NA)	106,659	275,630	(NA)	0.37	92	91
1939	374	(NA)	31,988	40,440	28,774	(NA)	33,000	105,409	(NA)	0.34	55	61
1929	419	(NA)	36,319	49,542	31,544	(NA)	37,924	111,211	(NA)	0.38	63	62
1919	440	(NA)	(NA)	(NA)	28,909	(NA)	33,009	62,540	(NA)	(NA)	(NA)	63
Boston, Mass.: [5]												
1963	5,465	1,956	293,248	1,768,835	192,647	379,925	964,242	3,014,044	123,664	1.73	97	106
1958	5,803	2,042	301,002	1,514,831	212,450	414,974	886,375	2,442,783	104,813	1.88	100	100
Bridgeport, Conn.: [5]												
1963	839	309	67,419	419,940	47,088	97,016	259,430	799,467	33,002	0.40	104	106
1958	801	290	64,749	331,762	45,583	90,028	209,176	590,915	25,797	0.40	100	100

See footnotes at end of table.

TABLE 7. General Statistics for Manufacturing Establishments by Geographic Areas: 1963 and Earlier Years—Continued

Geographic area [1]	Establishments [2]		All employees [2]		Production workers			Value added by manufacture, adjusted	Capital expenditures, new [3]	Comparative employment indexes		
	Total	With 20 employees or more	Total	Payroll	Total	Man-hours	Wages			Percent of U.S. employment	Index of employment change	U.S. index of employment change
	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)	($1,000)	(percent)	(1958-100)	(1958=100)
SELECTED STANDARD METROPOLITAN STATISTICAL AREAS (With 40,000 or more manufacturing employees) [4]--Con.												
Buffalo, N.Y.:												
1963	1,808	679	162,942	1,104,607	117,921	239,533	731,760	2,068,561	116,347	0.96	94	106
1958	1,855	701	173,874	980,689	122,643	241,027	638,158	1,714,762	110,224	1.08	100	100
1954	1,829	729	203,357	946,591	152,882	306,577	655,297	1,677,778	139,477	1.26	117	100
1947	1,693	706	183,876	557,384	149,758	(NA)	424,928	1,023,231	90,261	1.29	106	89
1939	1,356	(NA)	115,589	183,753	90,244	(NA)	125,565	391,785	(NA)	1.21	67	59
1929	1,896	(NA)	128,704	212,117	108,966	(NA)	160,766	480,123	(NA)	1.33	74	60
1919	2,913	(NA)	(NA)	(NA)	116,633	(NA)	152,180	346,627	(NA)	(NA)	(NA)	63
Canton, Ohio:												
1963	519	198	52,962	343,603	40,042	78,911	236,316	666,899	33,307	0.31	104	106
1958	477	184	51,166	269,691	38,152	69,642	181,150	499,608	26,677	0.32	100	100
1954	456	183	56,925	248,897	45,351	86,705	184,284	449,371	19,083	0.35	111	100
1947	385	166	55,564	158,649	47,600	(NA)	128,551	280,241	15,224	0.39	109	89
1939	323	(NA)	32,342	50,343	28,854	(NA)	42,061	107,807	(NA)	0.34	63	59
1929	338	(NA)	36,834	67,456	32,202	(NA)	54,735	142,508	(NA)	0.38	72	60
1919	584	(NA)	(NA)	(NA)	34,182	(NA)	47,876	108,670	(NA)	(NA)	(NA)	61
Chattanooga, Tenn.-Ga.:												
1963	455	207	38,940	193,842	30,842	62,081	136,577	391,896	22,411	0.23	95	106
1958	434	193	40,911	166,114	32,751	64,400	118,224	337,482	11,876	0.25	100	100
1954	410	190	43,019	145,186	35,724	69,907	107,515	277,314	33,496	0.27	105	100
1947	387	179	38,193	84,375	33,686	(NA)	67,484	149,104	(NA)	0.27	93	89
1939	271	(NA)	(NA)	(NA)	23,850	(NA)	(NA)	46,824	(NA)	(NA)	(NA)	59
Chicago, Ill.:												
1963	13,956	5,276	860,637	5,472,402	593,489	1,194,142	3,250,633	10,291,139	485,185	5.37	100	106
1958	13,831	4,947	857,238	4,599,875	587,311	1,153,265	2,740,792	8,296,011	477,330	5.34	100	100
1954	13,229	4,811	889,784	4,058,100	644,101	1,276,613	2,556,658	6,978,959	328,371	5.52	104	100
1947	12,082	(NA)	857,801	2,693,758	682,028	(NA)	1,934,360	4,964,097	(NA)	(NA)	(NA)	89
Cincinnati, Ohio-Ky.-Ind.:												
1963	1,971	797	153,930	988,973	100,087	207,124	554,917	2,057,411	78,069	0.91	98	106
1958	1,900	801	156,478	833,318	111,461	207,652	472,641	1,555,328	106,450	0.98	100	100
1954	2,082	889	160,766	713,588	116,951	237,641	456,023	1,383,043	74,800	1.00	103	100
1947	1,768	(NA)	143,861	405,051	115,563	(NA)	293,420	870,158	(NA)	1.01	92	89
1939	1,606	(NA)	(NA)	(NA)	76,161	(NA)	93,941	282,949	(NA)	(NA)	(NA)	59
Cleveland, Ohio:												
1963	4,175	1,517	280,285	1,908,311	194,150	397,590	1,176,375	3,378,768	176,930	1.65	102	106
1958	4,045	1,425	273,682	1,558,248	185,777	365,715	936,631	2,557,500	143,318	1.70	100	100
1954	3,867	1,393	308,105	1,470,131	227,490	452,414	961,769	2,443,836	219,435	1.91	113	100
1947	3,346	(NA)	274,203	881,780	223,538	(NA)	656,896	1,570,290	(NA)	1.88	98	89
1939	2,494	(NA)	(NA)	(NA)	131,850	(NA)	186,212	511,656	(NA)	1.58	55	59
Columbus, Ohio:												
1963	976	361	80,239	510,651	53,704	107,242	303,447	961,916	57,542	0.47	110	106
1958	911	338	72,991	381,266	46,791	93,625	224,826	679,786	52,153	0.43	100	100
1954	858	331	77,116	332,079	54,666	110,706	214,029	617,284	40,638	0.48	106	100
1947	745	(NA)	56,857	158,245	44,082	(NA)	109,170	290,237	(NA)	0.38	75	89
1939	550	(NA)	(NA)	(NA)	26,267	(NA)	30,557	93,389	(NA)	0.31	40	59
Dallas, Tex.:												
1963	2,103	737	109,517	616,710	72,961	153,866	340,607	1,190,047	79,377	0.63	115	106
1958	1,809	607	95,173	461,616	62,922	126,995	255,483	842,149	46,906	0.59	100	100
1954	1,482	518	80,462	319,408	57,080	116,273	191,354	531,649	21,737	0.50	84	100
1947	(NA)	(NA)	42,249	(NA)	(NA)	(NA)	(NA)	253,078	(NA)	0.30	44	89
1939	760	(NA)	(NA)	(NA)	17,523	(NA)	(NA)	63,903	(NA)	(NA)	(NA)	59
Davenport-Rock Island-Moline, Iowa-Ill.:												
1963	470	170	41,077	272,521	29,858	58,846	181,387	494,296	37,131	0.24	105	106
1958	453	154	39,146	213,741	28,688	56,521	142,287	404,876	22,594	0.24	100	100
1954	420	154	39,918	173,609	29,862	57,679	118,538	304,207	20,706	0.24	102	100
1947	359	(NA)	41,630	120,239	33,693	(NA)	92,437	189,449	(NA)	0.29	106	89
1939	318	(NA)	22,018	28,363	(NA)	(NA)	(NA)	70,695	(NA)	0.23	56	59

See footnotes at end of table.

TABLE 7. General Statistics for Manufacturing Establishments by Geographic Areas: 1963 and Earlier Years--Continued

Geographic area [1]	Establishments [2]		All employees [2]		Production workers			Value added by manufacture, adjusted	Capital expenditures, new	Comparative employment indexes		
	Total	With 20 employees or more	Total	Payroll	Total	Man-hours	Wages			Percent of U.S. employment	Index of employment change	U.S. index of employment change
	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)	($1,000)	(percent)	(1958=100)	(1958=100)
SELECTED STANDARD METROPOLITAN STATISTICAL AREAS (With 40,000 or more manufacturing employees)[4]--Con.												
Dayton, Ohio:												
1963	1,054	393	104,129	719,006	78,159	163,160	503,173	1,318,314	59,810	0.61	107	106
1958	968	371	97,189	552,492	72,988	147,120	392,364	912,079	41,769	0.61	100	100
1954	933	365	107,937	(D)	85,920	(D)	(D)	820,950	(D)	0.67	111	100
1947	787	329	103,772	332,428	86,496	(NA)	258,275	542,587	(NA)	0.72	106	89
1939	592	(NA)	(NA)	(NA)	44,968	(NA)	(NA)	182,946	(NA)	(NA)	(NA)	59
Denver, Colo.:												
1963	1,481	428	69,539	461,812	45,704	91,622	276,004	926,076	51,639	0.40	131	106
1958	1,314	368	53,686	286,018	37,018	75,002	179,949	562,850	35,846	0.34	100	100
1954	1,140	(NA)	43,107	177,589	30,524	62,057	113,242	320,461	18,987	0.27	80	100
1947	(NA)	(NA)	35,224	(NA)	(NA)	(NA)	(NA)	190,220	(NA)	0.25	68	89
Detroit, Mich:												
1963	7,023	2,236	493,913	3,847,165	329,736	705,990	2,292,965	6,690,431	378,605	2.91	106	106
1958	6,604	1,911	467,431	2,972,087	295,788	584,598	1,659,858	4,312,429	218,414	2.92	100	100
1954	6,159	2,005	589,941	3,113,753	434,365	881,589	2,073,287	4,713,167	480,818	3.66	126	100
1947	4,761	(NA)	557,241	1,852,316	468,170	(NA)	1,457,651	2,912,660	(NA)	3.90	119	89
1939	2,684	(NA)	372,882	655,102	315,221	(NA)	517,849	1,087,575	(NA)	3.91	80	59
1929	2,844	(NA)	328,414	616,246	290,980	(NA)	507,375	1,216,159	(NA)	3.40	70	60
1919	2,634	(NA)	(NA)	(NA)	264,961	(NA)	402,488	958,755	(NA)	(NA)	(NA)	61
Erie, Pa.:												
1963	472	184	36,437	220,832	26,304	52,460	142,360	414,115	18,189	0.21	105	106
1958	428	182	34,858	178,776	25,151	49,382	116,138	308,019	24,528	0.22	100	100
1954	422	185	40,647	173,049	31,786	62,089	122,133	286,397	13,882	0.25	100	117
1947	368	172	46,285	134,693	38,076	(NA)	103,640	224,906	17,815	0.32	129	89
1939	296	(NA)	22,794	33,380	19,216	(NA)	24,985	72,110	(NA)	0.24	65	59
1929	366	(NA)	27,352	45,082	23,022	(NA)	33,568	91,258	(NA)	0.28	78	60
1919	455	(NA)	(NA)	(NA)	22,944	(NA)	28,930	70,441	(NA)	(NA)	(NA)	61
Flint, Mich.:												
1963	336	98	68,875	563,495	56,523	131,199	445,868	1,145,919	81,470	0.41	117	106
1958	337	84	58,802	348,054	47,302	94,895	266,790	585,920	20,703	0.37	100	100
1954	329	87	76,618	392,215	65,008	139,955	319,978	720,826	149,472	0.48	130	100
1947	253	(NA)	56,230	174,674	48,851	(NA)	143,352	328,916	(NA)	0.39	96	89
1939	164	(NA)	(NA)	(NA)	33,685	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	59
Fort Worth, Tex.:												
1963	954	307	50,534	322,210	33,289	70,013	176,118	586,463	28,645	0.30	90	106
1958	794	271	55,899	289,566	42,230	82,894	205,257	523,283	19,941	0.35	100	100
1954	637	216	50,075	215,661	38,416	76,161	151,136	372,674	16,731	0.31	90	100
1947	456	161	32,420	83,807	26,757	(NA)	62,392	147,463	(NA)	0.23	58	89
1939	316	(NA)	(NA)	(NA)	8,242	(NA)	(NA)	30,450	(NA)	(NA)	(NA)	59
Gary-Hammond-East Chicago, Ind.:												
1963	428	188	97,961	722,385	76,153	149,966	530,097	1,648,386	230,320	0.56	98	106
1958	454	170	99,994	613,520	76,630	144,119	436,359	1,281,927	250,813	0.62	100	100
1954	414	178	101,858	487,500	81,177	155,765	364,915	980,872	101,953	0.63	102	100
1947	327	149	94,967	318,954	80,013	(NA)	256,814	597,816	(NA)	0.66	95	89
1939	237	(NA)	(NA)	(NA)	58,733	(NA)	(NA)	268,034	(NA)	(NA)	(NA)	59
Grand Rapids, Mich.:												
1963	1,170	416	64,602	393,232	50,479	103,976	280,716	778,690	37,442	0.38	114	106
1958	1,094	394	56,480	291,674	43,385	86,668	202,636	548,250	22,504	0.35	100	100
1954	1,003	364	63,847	294,305	50,868	106,334	212,333	546,331	32,770	0.40	113	100
1947	874	(NA)	59,334	176,113	50,612	(NA)	138,111	311,128	(NA)	0.41	105	89
1939	620	(NA)	(NA)	(NA)	30,012	(NA)	35,439	90,208	(NA)	0.29	52	61
Greensboro-High Point, N.C.:												
1963	638	297	45,913	195,400	35,625	69,460	122,198	420,393	18,105	0.27	110	106
1958	589	254	41,873	144,077	33,939	63,589	97,021	315,167	11,876	0.26	100	100
1954	509	218	38,588	112,415	33,045	59,654	77,484	169,106	8,190	0.23	92	100
1947	(NA)	(NA)	28,843	(NA)	(NA)	(NA)	(NA)	125,935	(NA)	0.20	69	89
1939	(NA)	(NA)	(NA)	(NA)	25,123	(NA)	(NA)	39,582	(NA)	(NA)	(NA)	59
Greenville, S.C.:												
1963	406	107	45,360	177,003	38,048	77,599	132,392	314,847	20,885	0.27	123	106
1958	342	137	36,777	118,604	31,577	63,531	92,096	206,424	9,432	0.23	100	100
1954	303	116	32,556	92,440	29,046	59,048	75,110	145,439	10,994	0.20	88	100

See footnotes at end of table.

TABLE 7. General Statistics for Manufacturing Establishments by Geographic Areas: 1963 and Earlier Years--Continued

Geographic area [1]	Establishments [2]		All employees [2]		Production workers			Value added by manufacture, adjusted	Capital expenditures, new [3]	Comparative employment indexes		
	Total	With 20 employees or more	Total	Payroll	Total	Man-hours	Wages			Percent of U.S. employment	Index of employment change	U.S. index of employment change
	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)	($1,000)	(percent)	(1958-100)	(1958-100)
SELECTED STANDARD METROPOLITAN STATISTICAL AREAS (With 40,000 or more manufacturing employees)[4]--Con.												
Hartford, Conn.:												
1963	945	325	90,177	589,539	57,985	121,400	331,993	949,262	40,996	0.53	102	106
1958	946	290	88,533	458,561	60,439	120,131	277,771	722,875	32,464	0.55	100	100
Houston, Tex.:												
1963	2,261	727	108,585	720,296	70,322	145,398	403,783	1,918,430	160,154	0.64	104	106
1958	1,976	594	104,541	579,355	70,371	142,251	350,226	1,358,049	(D)	0.65	100	100
1954	1,557	494	89,042	(D)	65,142	118,601	243,154	868,747	87,235	0.55	85	100
1947	1,050	402	65,973	(D)	52,263	(NA)	(D)	(D)	(NA)	0.46	63	89
1939	727	(NA)	(NA)	(D)	24,850	(D)	(D)	(D)	(NA)	(NA)	(NA)	59
Indianapolis, Ind.:												
1963	1,382	475	115,817	749,221	80,340	164,240	463,734	1,368,526	72,246	0.68	110	106
1958	1,324	475	105,633	574,285	71,798	143,711	343,360	1,025,960	(D)	0.65	100	100
1954	1,338	(NA)	111,791	499,175	82,094	165,948	326,182	896,422	51,525	0.69	106	100
1947	943	(NA)	92,259	278,506	72,827	(NA)	197,989	483,375	(NA)	0.70	95	89
1939	784	(NA)	50,666	73,782	38,705	(NA)	47,989	138,633	(NA)	(NA)	(NA)	59
Jersey City, N.J.:												
1963	2,338	822	109,534	633,432	82,857	162,970	422,639	1,385,223	63,772	0.64	88	106
1958	2,400	805	124,348	619,229	89,645	173,230	394,467	1,224,988	49,624	0.77	100	100
1954	2,363	785	136,639	590,626	100,902	195,838	380,317	1,119,182	41,723	0.85	110	100
1947	(NA)	(NA)	144,039	(NA)	(NA)	(NA)	(NA)	889,898	(NA)	1.01	115	89
1939	1,632	(NA)	(NA)	(NA)	85,629	(NA)	(NA)	342,458	(NA)	(NA)	(NA)	59
Kansas City, Mo.-Kans.:												
1963	1,755	645	111,104	684,504	75,382	153,104	423,143	1,514,178	76,410	0.66	108	106
1958	1,708	591	103,084	523,797	69,547	136,103	317,814	1,069,063	60,464	0.64	100	100
1954	1,548	559	117,980	513,686	85,347	169,304	337,205	1,042,162	46,019	0.73	114	100
1947	1,376	(NA)	79,266	220,152	62,210	(NA)	157,100	471,688	(NA)	0.55	77	89
1939	1,043	(NA)	(NA)	(NA)	38,323	(NA)	47,611	148,138	(NA)	(NA)	(NA)	59
Lancaster, Pa.:												
1963	673	295	47,878	255,079	35,946	71,825	160,238	532,634	26,348	0.28	109	106
1958	638	276	43,905	190,234	33,678	66,476	123,997	367,964	15,630	0.27	100	100
1954	612	263	43,681	157,769	34,663	68,491	110,273	288,553	16,059	0.27	99	100
1947	(NA)	(NA)	39,139	(NA)	(NA)	(NA)	(NA)	177,965	(NA)	0.27	89	89
Lawrence-Haverhill, Mass.-N.H.:[5]												
1963	476	193	42,020	214,286	30,629	58,626	132,854	365,306	16,276	0.25	117	106
1958	501	209	36,378	149,253	27,720	52,656	97,684	268,186	15,227	0.23	100	100
Los Angeles- Long Beach, Calif.:												
1963	17,679	5,186	745,968	4,939,610	494,930	993,485	2,746,963	8,980,337	389,419	4.40	108	106
1958	17,083	4,771	697,235	3,971,467	496,338	989,956	2,418,849	7,080,593	297,231	4.35	100	100
1954	14,424	3,974	633,528	2,929,803	471,732	946,178	1,934,617	5,054,697	305,982	3.93	92	100
1947	9,771	2,722	358,722	1,118,344	281,806	(NA)	797,090	2,052,671	175,327	2.51	52	91
1939	5,505	(NA)	172,757	258,967	127,425	(NA)	167,133	517,671	(NA)	1.81	25	61
1929	5,029	(NA)	127,881	210,001	103,652	(NA)	151,486	505,380	(NA)	1.32	18	62
1919	3,721	(NA)	(NA)	(NA)	63,255	(NA)	74,291	183,855	(NA)	(NA)	(NA)	63
Louisville, Ky.-Ind.:												
1963	904	429	87,621	542,520	65,202	131,667	361,315	1,595,638	66,651	0.52	101	106
1958	898	402	86,656	434,586	63,869	125,505	288,167	1,161,445	52,214	0.54	100	100
1954	814	390	88,158	373,584	66,502	135,815	252,962	845,031	90,958	0.54	102	105
1947	743	(NA)	73,853	193,837	60,878	(NA)	144,248	489,435	(NA)	0.51	85	100
1939	641	(NA)	39,770	46,757	35,009	(NA)	35,581	128,466	(NA)	0.41	46	89
1929	822	(NA)	49,459	65,304	42,303	(NA)	48,399	153,178	(NA)	0.51	57	59
1919	979	(NA)	(NA)	(NA)	35,238	(NA)	34,165	90,721	(NA)	(NA)	(NA)	63
Memphis, Tenn.-Ark.:												
1963	816	353	47,152	241,367	33,955	70,196	153,946	575,265	28,336	0.28	113	106
1958	734	300	41,850	178,066	30,066	59,492	112,105	396,948	33,431	0.26	100	100
1954	646	(NA)	42,971	158,035	32,702	66,530	104,342	338,920	31,876	0.26	101	100
1947	(NA)	(NA)	36,539	(NA)	(NA)	(NA)	(NA)	204,410	(NA)	0.25	85	89
1939	376	(NA)	(NA)	(NA)	18,447	(NA)	(NA)	57,494	(NA)	(NA)	(NA)	59

See footnotes at end of table.

TABLE 7. General Statistics for Manufacturing Establishments by Geographic Areas: 1963 and Earlier Years—Continued

Geographic area [1]	Establishments [2]		All employees [2]		Production workers			Value added by manufacture, adjusted	Capital expenditures, new [3]	Comparative employment indexes		
	Total	With 20 employees or more	Total	Payroll	Total	Man-hours	Wages			Percent of U.S. employment	Index of employment change	U.S. index of employment change
	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)	($1,000)	(percent)	(1958-100)	(1958=100)
SELECTED STANDARD METROPOLITAN STATISTICAL AREAS (With 40,000 or more manufacturing employees) [4]--Con.												
Miami, Fla.:												
1963	1,923	534	43,245	192,569	31,653	63,062	119,716	363,073	21,936	0.25	117	106
1958	1,696	446	36,893	143,097	25,935	50,249	87,766	252,123	17,904	0.23	100	100
1954	1,238	293	24,317	80,212	17,772	34,660	50,009	141,213	9,775	0.15	66	100
Milwaukee, Wis.:												
1963	2,405	877	193,845	1,271,922	133,262	266,482	784,128	2,337,200	96,364	1.14	102	106
1958	2,387	838	189,535	1,041,707	129,491	252,744	640,030	1,764,511	79,955	1.18	100	100
1954	2,307	856	192,658	886,706	138,946	274,137	572,497	1,519,669	73,096	1.10	99	100
1947	2,180	(NA)	189,284	569,811	149,968	(NA)	420,082	1,031,998	(NA)	1.10	100	89
1939	(NA)	(NA)	(NA)	(NA)	84,133	(NA)	(NA)	299,808	(NA)	(NA)	(NA)	59
Minneapolis-St. Paul, Minn.:												
1963	2,666	1,008	163,860	1,056,110	102,927	205,164	573,447	1,956,902	98,889	0.98	100	106
1958	2,481	881	146,043	766,192	91,936	180,213	421,800	1,396,579	49,909	0.91	100	100
1954	2,289	804	143,064	628,064	99,171	98,945	386,367	1,116,758	49,118	0.84	93	100
1947	2,152	(NA)	123.266	361,342	96,302	(NA)	245,271	724,639	(NA)	0.86	84	89
Nashville, Tenn.:												
1963	675	291	46,519	226,185	34,109	68,352	141,047	489,718	50,242	0.27	106	116
1958	572	242	39,977	166,127	28,410	56,311	100,952	304,768	26,572	0.25	100	100
New Haven, Conn.: [5]												
1963	731	280	42,997	253,124	30,719	61,914	156,601	425,149	27,706	0.25	101	106
1958	731	277	42,527	205,754	31,251	61,050	130,729	331,572	18,492	0.26	100	100
New Orleans, La.:												
1963	916	309	49,051	282,948	36,469	74,875	193,473	618,363	31,219	0.29	105	106
1958	953	323	46,922	208,883	35,197	68,348	142,482	474,762	26,895	0.29	100	100
1954	899	314	54,362	197,460	42,232	83,390	137,198	378,685	64,752	0.34	117	100
1947	752	(NA)	46,397	107,193	38,903	(NA)	79,935	226,680	(NA)	0.32	99	89
1939	709	(NA)	(NA)	(NA)	26,127	(NA)	78,600	223,980	(NA)	(NA)	(NA)	59
New York, N.Y.:												
1963	39,995	11,737	1,147,203	6,849,851	760,803	1,455,347	3,515,857	11,437,343	345,759	6.76	97	106
1958	40,134	11,705	1,183,977	5,876,864	793,723	1,494,267	3,129,950	9,388,523	326,861	7.38	100	100
1954	41,012	11,754	1,203,384	5,037,954	872,130	1,651,802	2,943,559	8,133,224	183,330	7.47	102	100
1947	(NA)	(NA)	1,027,001	(NA)	(NA)	(NA)	(NA)	5,984,484	(NA)	7.18	87	89
1939	26,206	(NA)	(NA)	(NA)	540,878	(NA)	(NA)	1,969,558	(NA)	(NA)	(NA)	59
Newark, N.J.:												
1963	4,692	1,705	250,235	1,613,784	160,280	321,861	852,912	3,015,582	155,840	1.47	102	106
1958	4,424	1,586	245,605	1,289,824	163,629	320,293	738,588	2,292,865	123,091	1.53	100	100
1954	4,255	1,571	255,504	1,138,598	181,137	359,439	695,260	1,964,973	128,151	1.59	104	100
1947	(NA)	(NA)	222,762	(NA)	(NA)	(NA)	(NA)	1,317,281	(NA)	1.56	91	89
1939	2,458	(NA)	(NA)	(NA)	116,122	(NA)	(NA)	438,574	(NA)	(NA)	(NA)	59
Paterson-Clifton-Passaic, N.J.:												
1963	3,826	1,322	176,490	1,053,081	122,672	247,384	640,540	2,002,885	71,472	1.04	111	106
1958	3,364	1,138	158,545	806,489	115,068	226,282	507,911	1,464,579	55,504	0.99	100	106
1954	2,956	1,041	157,169	674,303	119,026	235,164	451,491	1,162,689	39,724	1.04	99	100
1947	(NA)	(NA)	131,029	(NA)	(NA)	(NA)	(NA)	701,632	(NA)	0.92	83	89
1939	1,364	(NA)	(NA)	(NA)	82,530	(NA)	(NA)	227,659	(NA)	(NA)	(NA)	59
Peoria, Ill.:												
1963	368	141	40,087	277,597	27,551	55,167	172,269	604,209	24,139	0.24	108	106
1958	338	129	37,206	195,605	25,358	45,950	117,581	491,082	29,519	0.23	100	100
1954	348	116	41,457	186,420	30,894	61,245	126,079	366,675	21,305	0.26	111	100
1947	300	(NA)	43,007	124,743	34,883	(NA)	94,876	282,151	(NA)	0.30	116	89
1939	280	(NA)	(NA)	(NA)	19,056	(NA)	28,150	85,597	(NA)	(NA)	(NA)	59
Philadelphia, Pa.-N.J.:												
1963	8,287	3,212	535,807	3,310,617	374,776	743,521	1,998,068	6,031,632	297,458	3.16	100	106
1958	8,251	3,147	536,912	2,738,856	380,404	738,073	1,688,750	4,826,261	306,123	3.35	100	100
1954	8,079	3,159	563,806	2,401,449	419,932	827,015	1,564,348	4,023,700	275,789	3.50	105	100
1947	7,394	(NA)	531,809	1,530,678	436,996	(NA)	1,139,148	2,772,649	(NA)	3.72	99	89
1939	5,756	(NA)	393,561	555,590	320,627	(NA)	385,782	1,037,292	(NA)	4.13	73	59
1929	7,136	(NA)	428,914	663,047	367,784	(NA)	497,430	1,396,529	(NA)	4.44	79	60
1919	11,673	(NA)	(NA)	(NA)	465,487	(NA)	567,866	1,303,034	(NA)	(NA)	(NA)	61

See footnotes at end of table.

TABLE 7. General Statistics for Manufacturing Establishments by Geographic Areas: 1963 and Earlier Years—Continued

Geographic area [1]	Establishments [2]		All employees [2]		Production workers			Value added by manufacture, adjusted	Capital expenditures, new [3]	Comparative employment indexes		
	Total	With 20 employees or more	Total	Payroll	Total	Man-hours	Wages			Percent of U.S. employment	Index of employment change	U.S. index of employment change
	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)	($1,000)	(percent)	(1958-100)	(1958=100)
SELECTED STANDARD METROPOLITAN STATISTICAL AREAS (With 40,000 or more manufacturing employees [4]--Con.												
Phoenix, Ariz.:												
1963	976	234	40,970	253,784	26,313	52,885	142,758	435,610	38,254	0.24	159	106
1958	705	170	25,794	139,703	18,387	38,027	94,547	227,710	14,322	0.16	100	100
1954	461	(NA)	15,837	67,254	11,935	24,773	47,652	115,281	7,456	0.10	61	100
Pittsburgh, Pa.:												
1963	2,578	947	272,183	1,925,554	181,116	351,798	1,119,011	2,879,159	199,898	1.60	89	106
1958	2,574	921	305,722	1,798,221	202,696	380,073	1,057,073	2,622,340	262,562	1.91	100	100
1954	2,381	917	331,568	1,557,825	239,812	454,812	995,776	2,481,817	164,024	2.06	108	100
1947	2,227	(NA)	337,928	1,023,833	283,985	(NA)	807,101	1,704,327	(NA)	2.36	111	89
1939	1,905	(NA)	229,353	357,044	191,278	(NA)	270,370	640,908	(NA)	2.41	75	59
1929	2,544	(NA)	248,607	423,336	216,481	(NA)	338,023	835,162	(NA)	2.57	81	60
1919	3,796	(NA)	(NA)	(NA)	244,991	(NA)	366,325	803,556	(NA)	(NA)	(NA)	61
Portland, Oreg.-Wash.:												
1963	1,863	519	65,366	393,504	47,583	92,588	258,986	769,279	50,356	0.38	116	106
1958	1,791	458	58,334	296,179	43,514	82,905	201,626	597,572	32,163	0.36	100	100
1954	1,787	438	57,453	244,096	44,840	85,943	172,036	475,021	27,190	0.36	98	100
1947	1,298	409	51,643	153,747	42,675	(NA)	119,893	314,273	36,254	0.36	89	89
1939	943	(NA)	28,398	38,224	25,017	(NA)	30,679	79,875	(NA)	0.30	49	59
1929	1,307	(NA)	38,083	56,783	31,576	(NA)	42,254	112,605	(NA)	0.39	65	60
1919	1,129	(NA)	(NA)	(NA)	38,075	(NA)	54,862	111,892	(NA)	(NA)	(NA)	61
Providence-Pawtucket-Warwick, R.I.-Mass.: [5]												
1963	2,918	951	125,886	596,371	99,205	197,248	406,710	1,075,228	47,821	0.74	100	106
1958	2,938	996	127,150	509,907	100,957	195,882	347,839	852,083	33,448	0.79	100	100
Reading, Pa.:												
1963	677	311	50,719	255,118	39,860	77,938	175,353	429,460	24,642	0.30	105	106
1958	702	319	48,429	194,423	38,942	73,634	137,884	341,705	16,380	0.30	100	100
1954	669	317	49,436	169,157	41,468	78,141	126,928	294,269	17,415	0.31	102	100
1947	616	(NA)	53,024	145,843	46,373	(NA)	110,795	230,161	(NA)	0.37	109	89
1939	493	(NA)	46,124	53,975	40,537	(NA)	41,612	83,782	(NA)	0.48	95	59
1929	567	(NA)	47,525	67,817	43,487	(NA)	56,302	117,936	(NA)	0.49	98	60
1919	1,031	(NA)	(NA)	(NA)	41,072	(NA)	39,910	81,355	(NA)	(NA)	(NA)	61
Richmond, Va.:												
1963	577	241	45,980	256,564	31,398	62,395	146,704	558,821	53,583	0.27	107	106
1958	571	219	42,999	194,705	29,400	57,758	113,631	454,651	22,489	0.26	100	100
1954	535	192	38,374	137,478	29,225	56,148	88,323	346,329	20,950	0.23	89	100
Rochester, N.Y.:												
1963	1,214	427	121,344	837,813	80,679	160,367	471,089	1,761,504	86,765	0.72	104	106
1958	1,032	414	116,722	640,367	80,475	154,202	371,864	1,174,614	59,567	0.72	100	100
1954	979	330	125,535	566,929	83,246	163,733	338,183	919,779	58,810	0.77	108	100
1947	907	(NA)	107,493	319,227	85,696	(NA)	234,932	514,543	(NA)	0.75	92	89
1939	755	(NA)	67,004	106,494	50,898	(NA)	70,381	207,730	(NA)	0.70	57	59
1929	1,044	(NA)	74,107	119,628	62,239	(NA)	87,844	247,685	(NA)	0.77	63	60
1919	1,536	(NA)	(NA)	(NA)	67,553	(NA)	73,332	195,916	(NA)	(NA)	(NA)	61
Rockford, Ill.:												
1963	584	228	43,932	272,946	31,434	65,993	176,595	494,788	22,215	0.26	108	106
1958	487	188	40,756	211,538	28,115	55,724	131,718	362,831	17,054	0.25	100	100
1954	439	-	39,422	181,982	29,318	61,937	124,101	312,770	16,255	0.24	97	100
1947	403	(NA)	36,893	116,181	30,286	(NA)	89,465	197,833	(NA)	0.26	90	89
1939	283	(NA)	(NA)	(NA)	18,554	(NA)	22,697	51,646	(NA)	(NA)	(NA)	59
St. Louis, Mo.-Ill.:												
1963	3,217	1,283	259,686	1,666,302	179,364	359,650	1,007,256	3,119,263	170,226	1.33	99	106
1958	3,220	1,281	262,504	1,352,978	184,916	357,433	836,024	2,416,983	153,496	1.64	100	100
1954	3,230	1,256	271,421	1,156,920	198,634	387,909	751,395	2,111,877	134,197	1.68	103	100
1947	3,036	(NA)	252,992	684,083	207,907	(NA)	507,878	1,337,269	(NA)	1.77	96	89
San Diego, Calif.:												
1963	920	191	60,276	453,047	30,231	58,901	186,863	661,446	13,877	0.36	84	106
1958	765	159	71,383	447,822	46,468	95,367	248,636	605,526	26,340	0.44	100	100
1954	595	114	48,137	224,969	37,310	74,405	156,997	390,218	7,986	0.29	67	100

See footnotes at end of table.

TABLE 7. General Statistics for Manufacturing Establishments by Geographic Areas: 1963 and Earlier Years—Continued

Geographic area	Establishments[2]		All employees[2]		Production workers			Value added by manufacture, adjusted	Capital expenditures, new[3]	Comparative employment indexes		
	Total	With 20 employees or more	Total	Payroll	Total	Man-hours	Wages			Percent of U.S. employment	Index of employment change	U.S. index of employment change
	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)	($1,000)	(percent)	(1958-100)	(1958=100)
SELECTED STANDARD METROPOLITAN STATISTICAL AREAS (With 40,000 or more manufacturing employees)[4]--Con.												
San Francisco-Oakland, Calif.:												
1963	4,922	1,402	196,163	1,356,640	125,956	243,601	766,265	2,567,610	187,971	1.16	103	106
1958	4,520	1,298	190,251	1,080,369	126,165	241,060	640,866	2,049,371	161,621	1.19	100	100
1954	4,043	1,173	184,341	873,420	127,283	247,190	533,868	7,656,387	114,482	1.10	97	54
1947	3,628	(NA)	162,351	522,623	130,120	(NA)	390,232	7,037,465	(NA)	1.14	85	47
1939	3,171	(NA)	(NA)	(NA)	75,291	(NA)	109,342	356,585	(NA)	1.06	58	61
1929	3,923	(NA)	109,119	179,628	89,299	(NA)	131,461	448,062	(NA)	1.13	63	62
1919	3,651	(NA)	(NA)	(NA)	107,080	(NA)	140,611	360,185	(NA)	(NA)	(NA)	63
San Jose, Calif.:												
1963	1,095	344	94,743	739,855	47,296	94,883	286,555	1,188,506	64,252	0.56	176	106
1958	798	253	53,921	340,494	36,184	70,702	195,708	631,557	39,559	0.34	100	100
1954	567	164	28,434	118,868	21,304	41,433	81,328	263,587	19,914	0.18	53	100
1947	(NA)	(NA)	18,881	(NA)	(NA)	(NA)	(NA)	116,810	(NA)	0.13	35	89
1939	289	(NA)	(NA)	(NA)	9,251	(NA)	(NA)	29,579	(NA)	(NA)	(NA)	61
Seattle-Everett, Wash.:												
1963	2,052	497	121,556	855,212	70,213	139,233	421,474	1,624,464	52,308	0.72	106	106
1958	1,935	477	114,871	659,684	79,103	156,744	386,612	1,064,863	56,777	0.72	100	100
1954	1,741	444	88,189	394,965	63,032	119,825	251,631	599,812	55,770	0.55	77	100
1947	1,418	435	63,624	198,979	52,752	(NA)	154,126	337,255	(NA)	0.45	55	89
1939	1,282	(NA)	(NA)	(NA)	29,918	(NA)	(NA)	103,336	(NA)	-	-	59
South Bend, Ind.:												
1963	439	148	37,664	244,152	26,876	52,723	156,807	361,528	14,934	0.22	102	106
1958	403	131	36,910	204,808	24,408	47,211	122,229	361,886	14,065	0.23	100	100
1954	401	(NA)	45,332	207,711	34,395	64,081	144,748	330,668	8,147	0.28	123	100
1947	316	(NA)	46,300	149,894	39,035	(NA)	121,832	243,824	(NA)	0.32	125	89
1939	224	(NA)	(NA)	(NA)	21,577	(NA)	3,037	7,155	(NA)	(NA)	(NA)	59
Springfield-Chicopee-Holyoke, Mass.-Conn.:[5]												
1963	979	397	67,354	370,304	49,714	98,923	240,908	690,595	27,886	0.40	94	106
1958	987	390	72,374	345,436	53,355	105,016	225,542	597,404	25,464	0.45	100	100
Syracuse, N.Y.:												
1963	772	279	66,985	422,822	40,928	81,423	224,527	773,677	37,304	0.39	96	106
1958	775	231	69,511	366,703	43,183	84,975	191,594	681,919	25,495	0.43	100	100
1954	766	274	70,327	295,891	48,653	98,093	184,841	553,701	29,604	0.44	101	100
1947	(NA)	(NA)	67,639	(NA)	(NA)	(NA)	(NA)	340,137	(NA)	0.47	97	89
1939	509	(NA)	(NA)	(NA)	32,967	(NA)	(NA)	104,975	(NA)	(NA)	(NA)	61
Toledo, Ohio-Mich.:												
1963	1,019	347	70,744	486,013	50,060	102,787	313,632	915,650	42,806	0.42	100	106
1958	967	316	70,838	410,009	48,989	95,235	255,383	715,535	57,537	0.44	100	100
1954	904	331	78,550	391,626	58,228	115,578	264,089	661,076	50,903	0.48	111	100
1947	716	(NA)	76,419	248,724	63,766	(NA)	191,457	438,208	(NA)	0.53	108	89
1939	576	(NA)	(NA)	(NA)	37,667	(NA)	52,560	139,959	(NA)	0.39	54	59
Utica-Rome, N.Y.:												
1963	472	169	38,474	218,709	27,192	54,699	133,766	447,214	15,660	0.23	95	106
1958	485	171	40,562	194,838	29,185	57,686	124,431	344,834	17,409	0.25	100	100
1954	503	184	43,125	169,169	34,003	65,963	122,010	328,206	10,191	0.27	106	100
1947	430	(NA)	50,975	140,601	44,202	(NA)	113,932	232,985	(NA)	0.36	126	89
1939	383	(NA)	35,885	41,632	32,263	(NA)	33,651	79,945	(NA)	0.38	88	59
1929	515	(NA)	43,212	56,829	37,974	(NA)	43,871	106,355	(NA)	0.45	107	60
1919	898	(NA)	(NA)	(NA)	43,973	(NA)	45,469	97,553	(NA)	(NA)	(NA)	61
Washington, D.C.-Md.-Va.:												
1963	1,276	376	50,090	324,319	27,970	55,553	154,919	525,298	30,723	0.29	144	106
1958	1,058	284	34,715	177,692	20,227	39,828	90,139	312,152	22,116	0.21	100	100
1954	859	(NA)	30,715	133,465	18,534	35,954	67,577	223,472	10,623	0.19	88	100
1947	(NA)	(NA)	22,473	(NA)	(NA)	(NA)	(NA)	118,776	(NA)	0.16	65	89
Wichita, Kans.:												
1963	518	151	43,321	286,600	31,360	64,547	182,987	480,121	22,755	0.25	80	106
1958	483	137	54,494	290,669	38,198	76,596	192,884	473,465	23,654	0.34	100	100
1954	465	121	54,865	245,592	40,306	84,820	175,400	350,307	10,733	0.34	101	100
1947	(NA)	(NA)	18,539	(NA)	(NA)	(NA)	(NA)	105,990	(NA)	0.13	34	89

See footnotes at end of table.

TABLE 7. General Statistics for Manufacturing Establishments by Geographic Areas: 1963 and Earlier Years—Continued

Geographic area[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture, adjusted	Capital expenditures, new[3]	Comparative employment indexes		
	Total	With 20 employees or more	Total	Payroll	Total	Man-hours	Wages			Percent of U.S. employment	Index of employment change	U.S. index of employment change
	(number)	(number)	(number)	($1,000)	(number)	(1,000)	($1,000)	($1,000)	($1,000)	(percent)	(1958-100)	(1958-100)
SELECTED STANDARD METROPOLITAN STATISTICAL AREAS (With 40,000 or more manufacturing employees[4]--Con.												
Wilkes-Barre-Hazleton, Pa.:												
1963	768	401	43,754	164,840	37,602	69,098	127,483	311,011	9,112	0.26	113	106
1958	699	346	38,673	122,778	33,087	59,473	94,788	207,590	6,871	0.24	100	100
1954	632	-	36,980	97,764	32,866	59,382	79,839	156,328	5,273	0.23	96	100
1947	468	(NA)	35,608	73,279	31,904	(NA)	60,527	126,075	7,185	0.25	92	89
1939	307	(NA)	(NA)	(NA)	19,022	(NA)	16,364	40,956	(NA)	(NA)	(NA)	59
Wilmington, Del.-N.J.-Md.:												
1963	480	206	59,449	468,552	30,403	61,119	178,153	702,618	60,775	0.35	101	106
1958	448	178	58,709	380,788	29,777	57,364	142,012	470,820	34,722	0.37	100	100
1954	408	167	56,143	297,026	31,309	60,949	121,502	402,412	25,160	0.35	96	100
1947	335	155	37,829	114,332	30,554	(NA)	82,601	212,717	(NA)	0.26	64	89
Worcester, Mass.:[5]												
1963	783	302	47,560	266,892	34,225	67,235	166,755	430,193	17,002	0.28	93	106
1958	800	317	51,124	241,978	36,847	71,301	152,470	377,725	22,530	0.32	100	100
York, Pa.:												
1963	724	365	48,750	224,123	39,896	80,597	162,732	438,294	19,668	0.29	100	106
1958	710	349	48,882	194,957	39,008	78,259	134,206	363,547	14,276	0.30	100	100
1954	624	300	50,845	176,421	40,994	83,689	125,337	307,767	19,641	0.32	104	100
1947	688	(NA)	47,231	110,209	40,426	(NA)	84,709	207,228	(NA)	0.33	97	89
1939	525	(NA)	(NA)	(NA)	31,306	(NA)	32,249	73,409	(NA)	(NA)	(NA)	59
Youngstown-Warren, Ohio:												
1963	571	222	69,084	477,425	55,592	110,450	361,589	901,555	57,354	0.41	90	106
1958	563	230	76,437	427,332	60,923	108,372	319,099	729,376	53,154	0.48	100	100
1954	578	238	86,780	394,416	73,128	138,500	309,312	685,996	42,122	0.54	114	100
1947	(NA)	(NA)	88,035	(NA)	(NA)	(NA)	(NA)	445,861	(NA)	0.62	115	89
1939	333	(NA)	(NA)	(NA)	52,245	(NA)	(NA)	167,572	(NA)	(NA)	(NA)	59

Note: See Introduction for an explanation of terms. Detailed figures may not equal totals because of independent rounding.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1]The 1958 and subsequent years figures include establishments classified in industry 3273, Ready Mixed Concrete, and establishments classified in industry 3599, Miscellaneous Machinery, that were engaged exclusively or almost exclusively in machine shop repair work. The data for such establishments are excluded from the figures for the period 1939 to 1957, but are included for 1929 and earlier years. The 1954 to 1963 figures include data for establishments engaged in the processing and distribution of fluid milk, industry group 202, Dairies. These establishments were not included in the figures for earlier census years. In addition, beginning with 1954, the figures include data for Logging Camps and Contractors, industry 2411, which were not included within the scope of the 1947 census. There were also a number of changes in the definition of manufacturing industries during earlier census years that affect the comparability of the historical series. Among the more important of these were the following: Figures for 1935 and later years exclude data for railroad repair shops and manufactured gas which were included in 1899 to 1933 figures; the minimum size of establishment included for 1947 to 1963 was 1 employee; for 1921 to 1939, manufacturing establishments reporting value of shipments of $5,000 or more were within scope whereas for 1919 and earlier years the cutoff was $500. (These changes in procedure have not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

[2]Employment and payroll totals for central administrative offices and auxiliaries are included in the statistics shown for the years 1954 to 1963. Prior to 1954, this information was not available. The "number of establishments with 20 or more employees" total for 1958 and all previous years and "total number of establishments" total for 1954 and previous years does not include data for central administrative offices and auxiliaries.

[3]For the years 1958 to 1963, includes expenditures for plants under construction but not in operation in addition to expenditures at operating manufacturing establishments. Prior to 1958, the data represents expenditures at operating manufacturing establishments only.

[4]This table includes data only for standard metropolitan statistical areas with 40,000 or more manufacturing employees in 1963 or 1958. The definitions of the standard metropolitan statistical areas are shown on pages

[5]Comparable data for years prior to 1958 are not available due to a revision in the definition of the standard metropolitan statistical area. See the 1958 or 1954 Census of Manufactures Area Statistics, Volume III, for statistics for the area as defined at that time.

[6]Does not include data for Alaska and Hawaii.

[7]Data for 1954 employment and payroll exclude central administrative offices and auxiliary units. This information was not collected for Alaska and Hawaii in 1954.

Size of Establishments

Chapter 2

CONTENTS

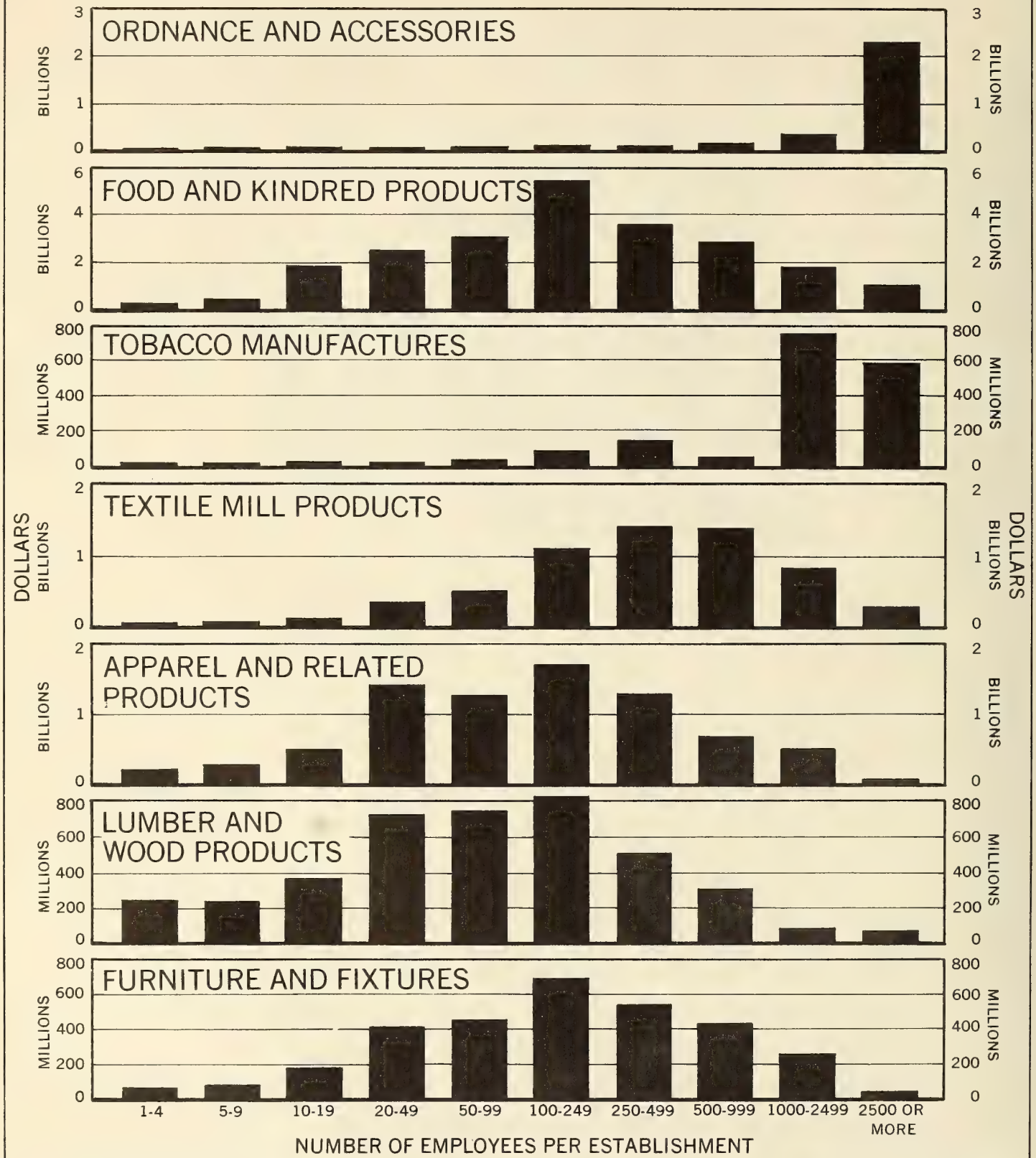
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SIZE OF ESTABLISHMENTS

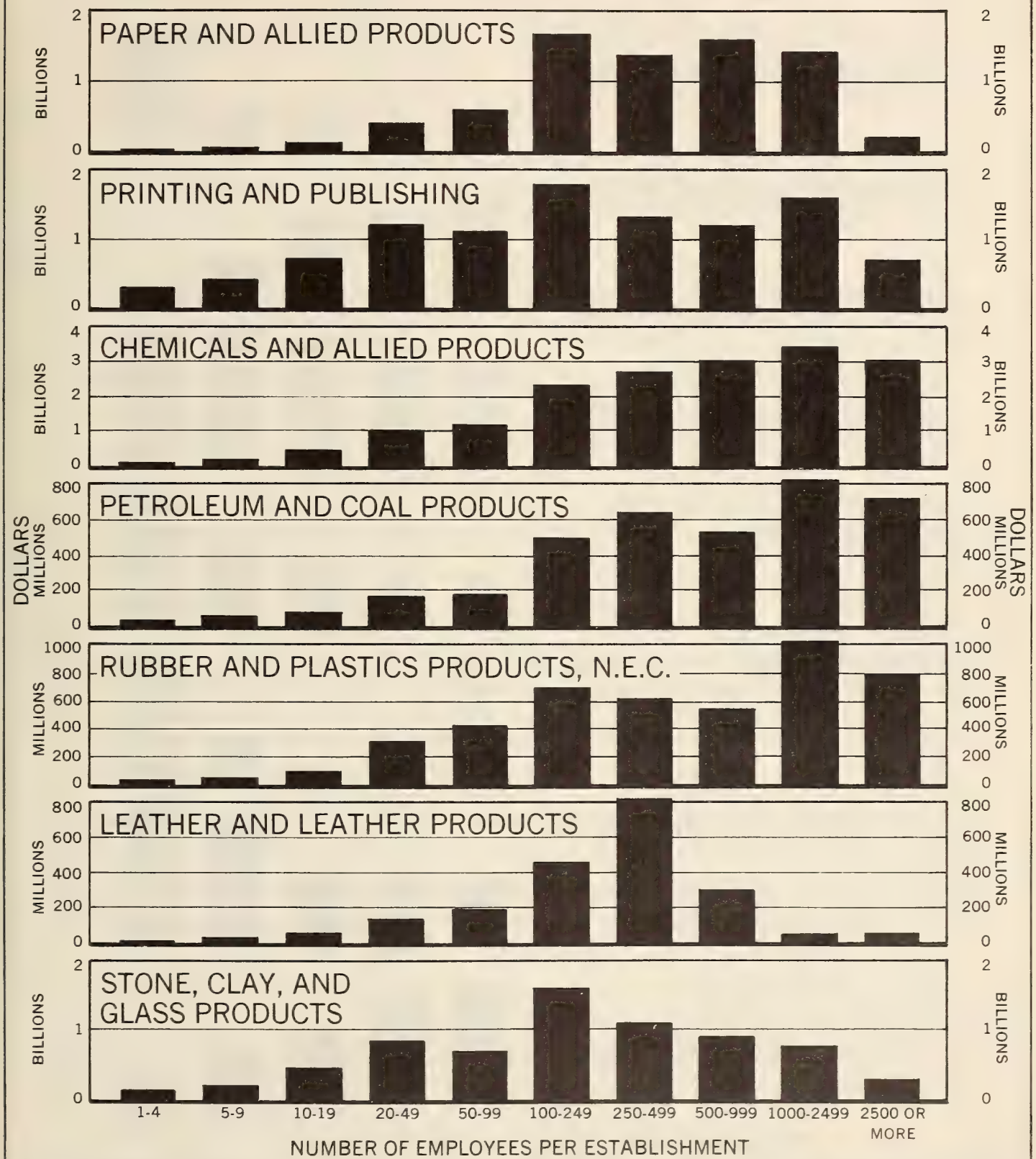
Each establishment in the census is coded not only by industry and geographic region, but also by its size, based on the average number of employees for the year. In this report, information appears on the number of employees, payrolls, value added, and value of shipments and capital expenditures for ten employment size classes for each 4-digit industry, 2-digit major industry group, and for all manufacturing. Figures at the 4-digit industry level have been published earlier as table 4 of each separate industry report (MC63(2)-19A to MC63(2)-39D) and appear in Volume II of the 1963 Census of Manufactures.

VALUE ADDED IN MANUFACTURING ESTABLISHMENTS BY EMPLOYMENT SIZE FOR MAJOR INDUSTRY GROUPS 19 TO 25: 1963



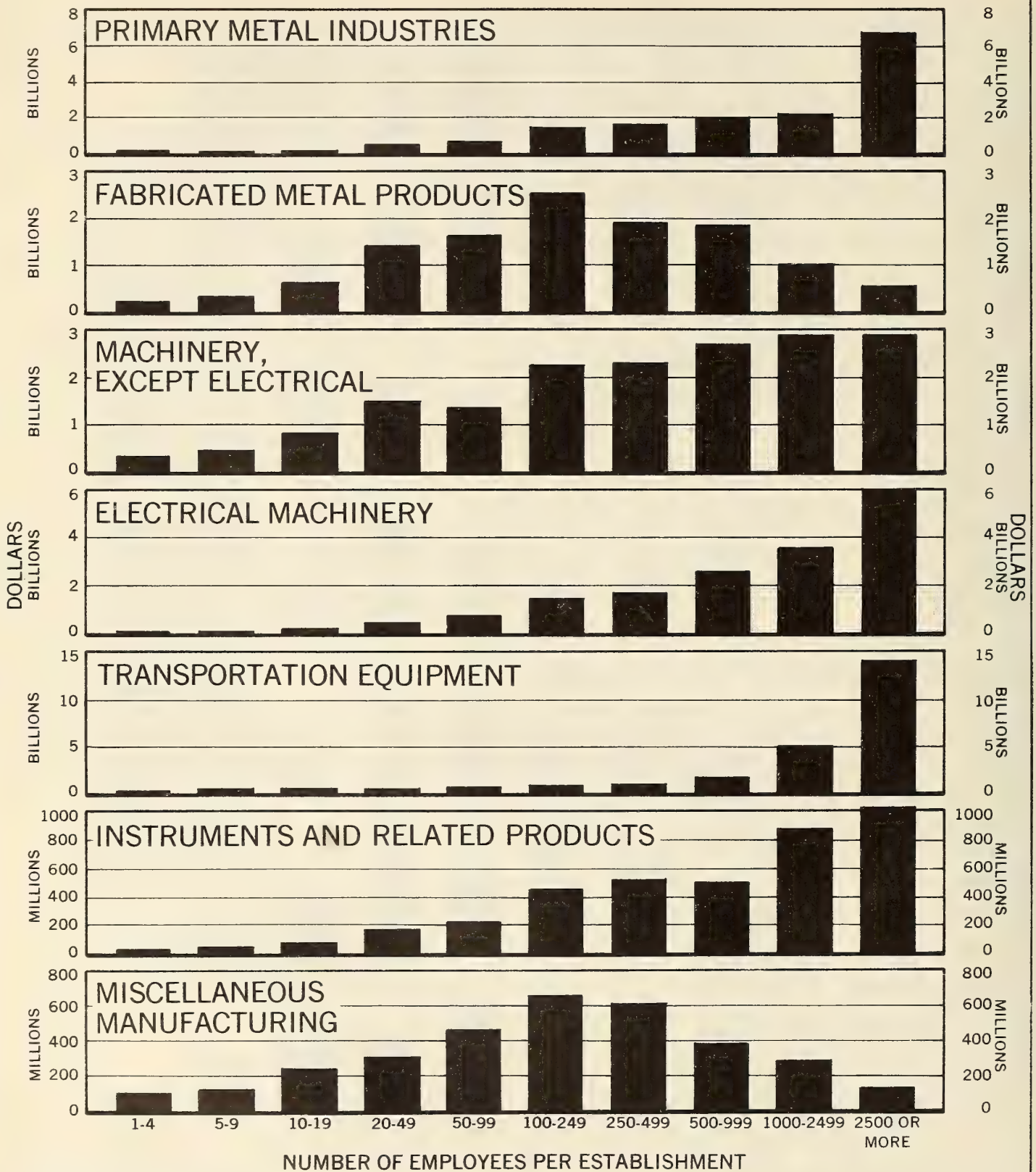
U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

VALUE ADDED IN MANUFACTURING ESTABLISHMENTS BY EMPLOYMENT SIZE FOR MAJOR INDUSTRY GROUPS 26 TO 32: 1963



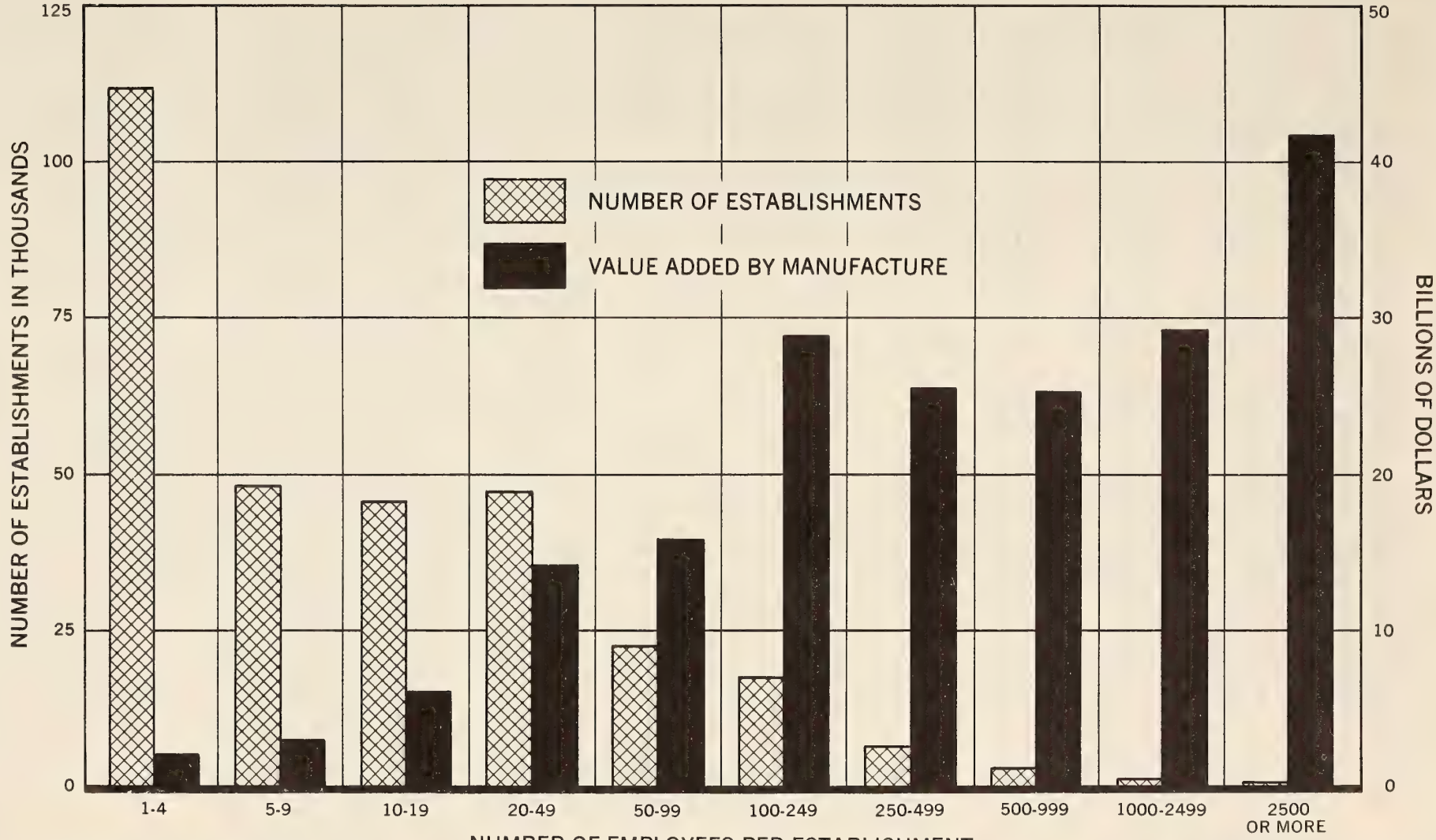
U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

VALUE ADDED IN MANUFACTURING ESTABLISHMENTS BY EMPLOYMENT SIZE FOR MAJOR INDUSTRY GROUPS 33 TO 39: 1963



U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

NUMBER OF MANUFACTURING ESTABLISHMENTS AND VALUE ADDED BY MANUFACTURE FOR EMPLOYMENT SIZE CLASSES: 1963



U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. Selected Statistics for Manufacturing Establishments, Classified by Establishment Employment Size: 1963, 1958, 1954, and 1947

Item and year	All establishments, total	Establishments with an average of-- 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
OPERATING ESTABLISHMENTS											
Establishments:											
1963.....number..	306,617	112,036	48,461	46,778	47,376	22,886	17,614	6,639	2,942	1,375	544
1958.....do....	299,017	105,641	50,660	46,320	46,307	21,764	16,732	6,640	2,957	1,463	533
1954.....do....	286,814	106,960	47,402	41,982	42,798	21,091	15,647	6,092	2,836	1,463	533
1947.....do....	240,807	70,362	46,608	40,632	40,004	18,666	14,319	5,553	2,728	1,431	504
All employees:											
Total:											
1963.....do....	16,234,506	203,647	326,093	645,606	1,480,682	1,590,601	2,726,693	2,297,394	2,014,698	2,052,759	2,898,617
1958.....do....	15,423,112	217,920	339,775	644,125	1,443,451	1,512,810	2,503,329	2,155,986	1,898,758	2,052,447	2,654,511
1954.....do....	15,645,491	258,219	336,758	600,470	1,360,091	1,474,907	2,430,255	2,118,438	1,963,305	2,226,944	2,876,072
1947.....do....	14,293,963	161,003	310,902	561,919	1,243,770	1,300,768	2,228,661	1,929,852	1,869,336	2,146,014	2,541,738
Payroll:											
1963....$1,000..	93,288,785	888,286	1,489,767	3,123,889	7,282,862	7,907,578	13,926,168	12,175,904	11,564,236	13,344,277	21,427,804
1958.....do....	73,875,152	738,211	1,297,019	2,614,591	6,058,299	6,416,361	10,963,393	9,733,822	9,201,046	10,877,144	15,975,266
1954.....do....	62,962,664	663,090	1,064,579	2,037,718	4,797,471	5,448,795	9,170,719	8,218,179	8,046,095	9,766,903	13,749,085
1947.....do....	39,695,558	325,281	698,835	1,366,470	3,241,630	3,439,645	5,937,347	5,244,037	5,219,229	6,236,749	7,986,335
Value added by manufacture:[1]											
1963.....do....	192,103,102	2,109,939	3,045,060	6,155,413	14,241,093	15,832,333	28,826,390	25,662,713	25,390,653	29,237,192	41,819,313
1958.....do....	141,540,618	1,831,999	2,543,890	4,837,994	11,089,100	12,023,698	21,216,398	19,345,058	18,157,226	21,502,943	28,992,312
1954.....do....	116,848,493	1,554,297	2,008,156	3,644,703	8,351,209	9,661,529	17,143,425	15,834,820	15,450,956	18,927,036	24,272,324
1947.....do....	74,290,475	904,069	1,444,406	2,596,439	6,039,200	6,581,058	11,772,438	10,431,881	10,110,380	11,598,271	12,812,333
Capital expenditures, new:[2]											
1963.....do....	11,370,935	[2]645,254	209,259	360,611	898,825	884,538	1,603,045	1,347,587	1,327,229	1,673,551	2,458,958
1958.....do....	9,543,528	[2]790,323	216,530	344,750	643,076	607,470	1,159,086	1,116,590	1,191,765	1,410,540	2,063,398
1954.....do....	8,200,739	[2]519,407	137,023	213,858	466,691	556,612	1,111,172	967,151	1,084,655	1,547,518	1,596,652
CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS											
Establishments:											
1963.....number..	5,304	2,384	(NA)	(NA)	880	669	725	328	182	136	(NA)
1958.....do....	4,370	2,085	(NA)	(NA)	740	505	505	260	150	125	(NA)
All employees:											
Total:											
1963.....do....	726,477	17,014	(NA)	(NA)	28,311	47,142	114,074	113,190	123,775	282,971	(NA)
1958.....do....	602,107	13,839	(NA)	(NA)	23,251	35,586	79,642	91,391	102,778	255,620	(NA)
Payroll:											
1963....$1,000..	6,615,494	150,229	(NA)	(NA)	244,436	413,478	998,947	985,741	1,112,194	2,710,469	(NA)
1958.....do....	4,473,741	102,533	(NA)	(NA)	167,266	255,939	569,844	629,314	758,579	1,990,266	(NA)

Note: The 1963 data at the "all establishments, total" level and the individual size classes were derived from separate tabulations. Therefore the sum of the size class detail does not equal the "all establishments, total" because of (1) independent rounding and (2) independent review and correction of the separate tabulations. The differences between the sum of the size class detail and the "all establishments, total" are always less than one tenth of one percent.

(NA) Not available. Data for this item are included in the underscored figures at the left.

[1]For the years 1954, 1958, and 1963, value added by manufacture represents adjusted value added. Unadjusted value added is obtained by subtracting the cost of materials, supplies and containers, fuel, purchased electric energy, and contract work from the value of shipments for products manufactured plus receipts for services rendered. Adjusted value added also takes into account (a) value added by merchandising operations (that is, the difference between the sales value and cost of merchandise sold without further manufacture, processing, or assembly), plus (b) the net change in finished goods and work-in-process inventories between the beginning and end of the year.

[2]Includes expenditures for plants under construction and not yet in operation. Data for these establishments are included in the "1 to 4 employees" category. Capital expenditures figures, classified by establishment employment size, are not available for the year 1947.

TABLE 2. Percent of Total Manufacturing Activity, for Selected Statistics, by Establishment Employment Size: 1963, 1958, 1954, and 1947

Item and year	All establishments, total	Establishments with an average of--									
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
OPERATING ESTABLISHMENTS											
Establishments:											
1963	100.0	36.5	15.8	15.3	15.4	7.5	5.7	2.2	1.0	0.4	0.2
1958	100.0	35.4	17.0	15.7	15.5	7.3	5.4	2.1	0.9	0.5	0.2
1954	100.0	37.3	16.5	14.6	14.9	7.4	5.5	2.1	1.0	0.5	0.2
1947	100.0	29.2	19.4	16.9	16.6	7.8	5.9	2.3	1.1	0.6	0.2
All employees:[1]											
Total:											
1963	100.0	1.3	2.0	4.0	9.1	9.8	16.8	14.1	12.4	12.6	17.9
1958	100.0	1.4	2.2	4.2	9.4	9.8	16.2	14.0	12.3	13.3	17.2
1954	100.0	1.7	2.2	3.8	8.7	9.4	15.5	13.5	12.5	14.2	18.4
1947	100.0	1.1	2.2	3.9	8.7	9.1	15.6	13.5	13.1	15.0	17.8
Payroll:[1]											
1963	100.0	1.0	1.6	3.4	7.8	8.5	15.0	13.1	12.4	14.3	23.0
1958	100.0	1.0	1.8	3.5	8.2	8.7	14.8	13.2	12.4	14.7	21.6
1954	100.0	1.1	1.7	3.2	7.6	8.7	14.6	13.1	12.8	15.5	21.8
1947	100.0	0.8	1.8	3.4	8.2	8.7	15.0	13.2	13.1	15.7	20.1
Value added by manufacture:[1]											
1963	100.0	1.1	1.6	3.2	7.4	8.2	15.0	13.3	13.2	15.2	21.7
1958	100.0	1.3	1.8	3.4	7.8	8.5	15.0	13.7	12.8	15.2	20.5
1954	100.0	1.3	1.7	3.1	7.1	8.3	14.7	13.6	13.2	16.2	20.8
1947	100.0	1.2	1.9	3.5	8.1	8.9	15.8	14.0	13.6	15.6	17.2
Capital expenditures, new:[2]											
1963	100.0	[2]5.7	1.8	3.2	7.9	7.8	14.1	11.8	11.6	14.7	21.6
1958	100.0	[2]8.3	2.3	3.6	6.7	6.3	12.2	11.7	12.5	14.8	21.6
1954	100.0	[2]6.3	1.7	2.6	5.7	6.8	13.5	11.8	13.2	18.9	19.4
CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS											
Establishments:											
1963	100.0	44.9	(NA)	(NA)	16.6	12.6	13.7	6.2	3.4	2.6	(NA)
1958	100.0	47.7	(NA)	(NA)	16.9	11.6	11.6	5.9	3.4	2.9	(NA)
All employees:											
Total:											
1963	100.0	2.3	(NA)	(NA)	3.9	6.5	15.7	15.6	17.0	39.0	(NA)
1958	100.0	2.3	(NA)	(NA)	3.9	5.9	13.2	15.2	17.1	42.4	(NA)
Payroll:											
1963	100.0	2.3	(NA)	(NA)	3.7	6.2	15.1	14.9	16.8	41.0	(NA)
1958	100.0	2.3	(NA)	(NA)	3.7	5.7	12.7	14.1	17.0	44.5	(NA)

Note: Percentage detail may not add to 100.0 due to independent rounding.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. Data for this item are included in the underscored figures at the left.

[1]For the years 1954, 1958, and 1963, value added by manufacture represents adjusted value added and for 1947, unadjusted value added. Unadjusted value added is obtained by subtracting the cost of materials, supplies and containers, fuel, purchased electric energy, and contract work from the value of shipments for products manufactured plus receipts for services rendered. Adjusted value added also takes into account (a) value added by merchandising operations (that is, the difference between the sales value and cost of merchandise sold without further manufacture, processing, or assembly), plus (b) the net change in finished goods and work-in-process inventories between the beginning and end of the year.

[2]Includes expenditures for plants under construction and not yet in operation. Data for these establishments are included in the "1 to 4 employees" category. Capital expenditures figures, classified by establishment employment size, are not available for the year 1947.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
ALL INDUSTRIES											
Establishments.....number..	306,617	112,036	48,461	46,778	47,376	22,886	17,614	6,639	2,942	1,375	544
All employees:											
Total.....do....	16,234,506	203,647	326,093	645,606	1,480,682	1,590,601	2,726,693	2,297,394	2,014,698	2,052,759	2,898,617
Payroll.....$1,000..	93,288,785	888,286	1,489,767	3,123,889	7,282,862	7,907,578	13,926,168	12,175,904	11,564,236	13,344,277	21,606,722
Value added, adjusted.....do....	192,103,102	2,109,939	3,045,060	6,155,413	14,241,093	15,832,333	28,826,390	25,662,713	25,390,653	29,237,192	41,819,313
Value of shipments.....do....	420,528,098	4,541,145	6,663,349	13,479,149	32,536,893	36,791,892	66,437,795	57,205,249	53,530,431	62,997,531	86,656,140
Capital expenditures, new...do....	11,370,935	615,254	209,259	360,611	898,825	884,538	1,603,045	1,347,587	1,327,229	1,673,551	2,458,958
MAJOR GROUP 20—FOOD AND KINDRED PRODUCTS											
Establishments.....number..	37,521	11,073	5,976	6,363	6,862	3,365	2,768	750	274	76	20
All employees:											
Total.....do....	1,643,111	21,907	40,488	88,418	216,095	234,144	423,894	255,543	184,398	110,814	67,084
Payroll.....$1,000..	8,637,152	80,660	157,146	374,988	993,353	1,164,511	2,232,854	1,413,994	1,065,204	708,350	445,616
Value added, adjusted.....do....	21,825,516	233,430	400,654	921,159	2,450,486	2,992,738	5,485,551	3,606,504	2,859,583	1,803,211	1,074,350
Value of shipments[1].....do....	68,466,487	759,526	1,298,898	2,954,027	8,569,902	10,561,942	17,635,052	10,843,046	7,776,572	5,015,297	3,058,908
Capital expenditures, new...do....	1,249,245	130,779	28,342	62,603	153,253	168,020	290,392	153,645	131,263	86,075	43,456
MAJOR GROUP 21—TOBACCO MANUFACTURES											
Establishments.....number..	394	106	24	33	53	53	54	44	11	13	3
All employees:											
Total.....do....	77,330	181	165	467	1,649	3,674	9,101	15,672	7,431	22,783	16,207
Payroll.....$1,000..	330,498	546	954	1,844	6,078	13,089	32,657	55,804	24,731	109,255	85,540
Value added, adjusted.....do....	1,680,594	1,165	447	2,487	17,291	26,461	83,208	156,228	51,505	746,896	596,122
Value of shipments[1].....do....	4,519,954	2,628	23,725	10,943	65,241	139,021	420,798	969,834	171,847	1,506,571	1,210,562
Capital expenditures, new...do....	53,843	5,817	43	73	249	1,097	2,087	13,542	945	15,182	14,838
MAJOR GROUP 22—TEXTILE MILL PRODUCTS											
Establishments.....number..	7,104	1,078	738	919	1,448	955	1,014	570	281	92	8
All employees:											
Total.....do....	863,246	2,101	5,066	12,938	46,614	67,791	161,331	199,420	194,463	130,814	42,607
Payroll.....$1,000..	3,385,031	10,463	22,023	55,841	188,300	268,772	625,830	771,821	768,831	511,701	161,237
Value added, adjusted.....do....	6,122,982	26,032	46,642	105,384	352,921	492,927	1,124,300	1,432,163	1,410,006	883,291	256,975
Value of shipments[1].....do....	15,740,545	88,661	136,586	274,083	832,807	1,193,937	2,949,167	3,760,733	3,543,920	2,269,207	706,820
Capital expenditures, new...do....	382,414	7,348	2,053	4,996	16,345	22,261	75,085	85,581	92,902	54,859	22,062
MAJOR GROUP 23—APPAREL AND RELATED PRODUCTS											
Establishments.....number..	28,457	7,222	3,777	4,448	6,583	3,372	2,187	655	178	36	2
All employees:											
Total.....do....	1,279,534	13,196	25,650	62,387	208,906	232,772	334,936	223,973	117,270	60,790	(D)
Payroll.....$1,000..	4,423,033	57,945	111,284	260,410	767,986	786,695	1,075,586	714,730	392,226	267,081	(D)
Value added, adjusted.....do....	7,861,011	151,114	247,075	542,224	1,369,787	1,304,132	1,784,576	1,235,879	701,967	528,998	(D)
Value of shipments[1].....do....	17,096,862	424,535	730,710	1,504,529	3,142,134	2,697,936	3,510,980	2,505,871	1,526,065	1,057,145	(D)
Capital expenditures, new...do....	128,582	4,589	4,324	7,505	19,186	19,914	30,198	21,616	11,657	9,498	(D)
MAJOR GROUP 24—LUMBER AND WOOD PRODUCTS											
Establishments.....number..	36,150	19,584	6,204	4,597	3,315	1,473	731	186	53	8	2
All employees:											
Total.....do....	563,135	34,499	41,058	62,218	103,021	100,973	109,129	62,434	35,169	14,846	(D)
Payroll.....$1,000..	2,338,733	104,860	128,415	216,196	406,102	424,844	497,750	305,668	174,615	81,089	(D)
Value added, adjusted.....do....	4,020,600	229,447	227,010	375,757	712,585	737,566	827,856	486,892	293,050	135,945	(D)
Value of shipments[1].....do....	9,200,039	493,691	506,155	843,833	1,624,109	1,739,235	2,003,938	1,097,854	645,766	252,734	(D)
Capital expenditures, new...do....	394,729	46,794	35,727	45,738	79,271	48,748	59,013	36,096	27,384	15,910	(D)
MAJOR GROUP 25—FURNITURE AND FIXTURES											
Establishments.....number..	10,478	3,867	1,637	1,662	1,661	794	573	192	73	19	1
All employees:											
Total.....do....	376,548	6,954	10,928	22,936	51,828	55,284	89,190	64,583	46,193	28,767	(D)
Payroll.....$1,000..	1,726,707	30,976	49,862	104,301	241,194	258,521	400,171	285,558	219,303	137,962	(D)
Value added, adjusted.....do....	3,068,287	63,179	88,677	179,389	402,356	442,842	694,334	532,105	408,563	263,621	(D)
Value of shipments[1].....do....	5,884,064	127,382	175,277	354,512	801,999	871,292	1,351,989	1,011,902	736,532	460,764	(D)
Capital expenditures, new...do....	110,180	4,727	3,502	5,854	12,415	15,196	21,598	16,660	16,451	13,734	(D)

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963 —Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
MAJOR GROUP 26—PAPER AND ALLIED PRODUCTS											
Establishments.....number..	5,713	840	568	753	1,187	833	983	335	151	64	3
All employees:											
Total.....do....	588,014	1,609	3,875	10,658	37,761	59,042	153,913	114,905	103,356	95,034	8,086
Payroll.....$1,000..	3,508,185	7,920	18,116	50,273	184,788	310,224	881,240	709,378	675,012	626,913	45,522
Value added, adjusted.....do....	7,395,677	19,474	39,753	103,591	363,999	597,381	1,712,071	1,441,941	1,624,144	1,385,719	119,694
Value of shipments[1].....do....	16,357,102	42,827	91,665	242,562	864,473	1,394,191	4,116,120	3,260,407	3,436,619	2,724,848	200,192
Capital expenditures, new...do....	708,532	30,291	2,990	7,532	25,858	45,965	150,423	108,734	160,991	165,266	10,256
MAJOR GROUP 27—PRINTING AND PUBLISHING											
Establishments.....number..	38,090	18,529	6,918	5,428	4,175	1,509	986	321	125	84	16
All employees:											
Total.....do....	913,243	33,757	46,017	73,965	126,781	103,871	149,382	111,636	86,825	121,496	59,508
Payroll.....$1,000..	5,514,816	150,828	225,362	398,991	725,030	625,813	902,352	697,648	554,135	830,220	404,735
Value added, adjusted.....do....	10,476,433	334,567	410,059	675,622	1,222,176	1,097,923	1,785,398	1,333,528	1,247,388	1,630,666	750,197
Value of shipments[1].....do....	16,165,744	563,367	653,853	1,022,187	1,864,166	1,649,503	2,684,401	2,039,775	1,904,464	2,602,673	1,201,740
Capital expenditures, new...do....	463,904	30,831	25,336	32,038	57,705	52,596	76,161	54,759	47,095	56,967	32,241
MAJOR GROUP 28— CHEMICALS AND ALLIED PRODUCTS											
Establishments.....number..	11,993	4,347	1,841	1,824	1,874	881	679	277	151	87	33
All employees:											
Total.....do....	737,414	7,793	12,454	25,083	58,066	61,773	104,749	95,639	104,413	135,523	131,169
Payroll.....$1,000..	4,969,843	38,476	68,138	142,934	341,359	371,683	660,241	639,449	743,676	960,505	998,762
Value added, adjusted.....do....	17,586,138	131,098	209,254	433,755	1,044,430	1,205,414	2,420,095	2,645,106	3,048,983	3,436,406	3,008,271
Value of shipments[1].....do....	31,772,722	299,207	472,513	985,418	2,459,091	2,723,472	4,788,912	4,823,955	5,311,611	5,505,185	4,373,508
Capital expenditures, new...do....	1,545,689	125,233	15,243	35,974	89,378	129,390	214,853	202,957	216,059	296,095	227,442
MAJOR GROUP 29—PETROLEUM AND COAL PRODUCTS											
Establishments.....number..	1,839	488	374	288	269	156	139	67	32	16	10
All employees:											
Total.....do....	153,486	1,016	2,445	3,977	8,325	11,025	21,813	23,554	22,122	23,245	35,976
Payroll.....$1,000..	1,133,765	6,257	15,544	24,886	54,806	69,335	148,730	175,850	172,720	184,817	280,823
Value added, adjusted.....do....	3,713,231	31,366	47,808	71,395	166,504	185,620	499,660	641,038	532,699	834,376	718,355
Value of shipments[1].....do....	17,994,742	76,584	147,636	205,927	487,004	704,721	2,438,693	3,119,691	3,228,795	3,724,737	3,876,663
Capital expenditures, new...do....	413,681	5,458	5,164	5,608	77,853	11,976	58,435	63,812	52,405	67,159	65,837
MAJOR GROUP 30—RUBBER AND PLASTICS PRODUCTS, N.E.C.											
Establishments.....number..	5,728	1,669	761	849	1,113	583	450	172	69	51	13
All employees:											
Total.....do....	414,959	3,185	5,109	11,957	35,530	40,787	70,147	60,546	47,797	74,522	65,553
Payroll.....$1,000..	2,364,033	14,512	23,129	56,292	166,559	204,825	359,974	325,472	271,480	493,425	448,928
Value added, adjusted.....do....	4,653,953	36,197	45,807	114,541	352,097	417,452	704,732	608,015	545,375	1,039,023	799,451
Value of shipments[1].....do....	9,116,230	68,234	93,956	219,765	686,415	830,631	1,348,577	1,142,633	1,019,822	2,125,818	1,590,329
Capital expenditures, new...do....	343,466	18,270	4,229	9,194	27,676	31,291	74,905	57,991	24,573	51,043	44,287
MAJOR GROUP 31—LEATHER AND LEATHER PRODUCTS											
Establishments.....number..	4,047	956	486	532	692	444	506	352	75	4	2
All employees:											
Total.....do....	327,489	1,761	3,309	7,469	21,987	31,623	80,537	123,425	46,348	11,301	(D)
Payroll.....$1,000..	1,227,824	6,533	12,590	28,350	81,825	121,259	296,840	450,059	176,205	55,153	(D)
Value added, adjusted.....do....	2,078,572	17,448	23,556	50,798	132,740	193,843	469,529	804,142	296,889	91,097	(D)
Value of shipments[1].....do....	4,209,614	56,395	67,983	133,920	297,344	431,845	993,912	1,502,512	569,206	158,934	(D)
Capital expenditures, new...do....	34,566	487	506	861	2,385	3,015	9,356	13,114	3,518	1,365	(D)
MAJOR GROUP 32—STONE, CLAY, AND GLASS PRODUCTS											
Establishments.....number..	15,838	5,386	2,890	2,909	2,492	988	771	252	98	47	6
All employees:											
Total.....do....	573,859	10,693	19,539	39,978	76,618	68,009	119,192	85,961	68,855	66,662	18,039
Payroll.....$1,000..	3,212,495	46,982	89,421	203,539	403,361	359,427	663,658	495,730	419,854	408,349	119,591
Value added, adjusted.....do....	7,043,987	125,388	210,490	456,324	842,419	733,542	1,613,616	1,121,909	914,317	758,970	271,787
Value of shipments[1].....do....	12,289,091	269,633	448,783	956,222	1,677,919	1,346,335	2,728,508	1,837,846	1,406,996	1,207,937	409,490
Capital expenditures, new...do....	607,581	47,565	23,079	43,254	102,150	90,494	116,800	77,428	59,348	40,543	7,008

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
MAJOR GROUP 33—PRIMARY METAL INDUSTRIES											
Establishments.....number..	6,513	1,234	770	926	1,272	734	782	397	212	116	75
All employees:											
Total.....do....	1,126,536	2,288	5,265	12,906	40,959	51,907	122,328	136,955	147,882	174,493	432,603
Payroll.....$1,000..	7,734,129	14,624	27,314	67,776	227,183	298,201	739,182	891,437	995,695	1,226,574	3,253,697
Value added, adjusted.....do....	15,261,089	40,139	56,746	126,535	455,482	548,341	1,403,182	1,614,598	2,004,706	2,206,654	6,811,840
Value of shipments[1].....do....	35,621,458	102,317	103,075	282,400	1,152,448	1,299,426	3,807,424	4,367,186	4,871,049	5,711,174	13,938,523
Capital expenditures, new...do....	1,446,303	65,585	2,950	6,850	39,679	29,142	80,600	120,304	114,219	172,734	814,390
MAJOR GROUP 34—FABRICATED METAL PRODUCTS											
Establishments.....number..	26,975	8,716	4,300	4,747	4,773	2,159	1,500	487	224	60	9
All employees:											
Total .....do....	1,082,102	15,726	29,014	65,786	148,163	149,733	233,043	168,638	152,466	83,227	36,776
Payroll.....$1,000..	6,387,508	79,385	146,091	348,063	817,181	855,778	1,336,676	1,030,029	973,029	532,859	270,498
Value added, adjusted.....do....	11,791,081	170,704	276,269	625,190	1,444,121	1,582,210	2,488,959	1,894,692	1,787,412	1,005,821	511,032
Value of shipments[1].....do....	23,065,207	304,907	500,054	1,168,199	2,848,678	3,223,307	5,132,065	3,902,386	3,373,606	1,808,751	838,516
Capital expenditures, new...do....	570,077	29,141	13,097	26,453	66,776	65,109	109,365	85,821	83,594	63,743	26,608
MAJOR GROUP 35—MACHINERY, EXCEPT ELECTRICAL											
Establishments.....number..	33,703	13,801	5,975	5,501	4,388	1,749	1,245	527	299	161	58
All employees:											
Total.....do....	1,459,377	24,351	40,358	75,348	134,476	120,308	193,802	185,869	209,524	236,097	240,048
Payroll.....$1,000..	9,570,984	129,798	227,873	457,908	862,579	759,745	1,232,991	1,205,080	1,362,795	1,613,295	1,723,299
Value added, adjusted.....do....	17,310,599	269,721	399,864	772,964	1,457,784	1,374,792	2,266,351	2,270,004	2,688,435	2,921,515	2,922,642
Value of shipments[1].....do....	30,363,095	432,216	610,997	1,202,459	2,387,462	2,353,221	4,050,229	4,062,980	4,838,042	4,998,440	5,469,786
Capital expenditures, new...do....	783,076	23,848	19,906	34,594	59,584	58,590	88,834	90,416	97,437	144,640	165,902
MAJOR GROUP 36—ELECTRICAL MACHINERY											
Establishments.....number..	9,948	2,731	1,233	1,262	1,585	1,050	958	498	340	199	98
All Employees:											
Total.....do....	1,511,819	4,680	8,495	17,538	50,207	73,459	149,211	175,239	236,673	298,553	498,389
Payroll.....$1,000..	9,284,279	26,681	43,067	89,151	257,546	386,454	788,851	948,423	1,335,695	1,906,803	3,504,550
Value added, adjusted.....do....	17,010,665	50,871	82,868	158,500	466,539	761,448	1,504,843	1,785,765	2,621,346	3,584,624	6,010,250
Value of shipments[1].....do....	29,840,182	95,695	146,841	302,412	888,695	1,406,831	2,762,313	3,131,080	4,685,829	6,269,194	10,244,845
Capital expenditures, new...do....	701,947	17,932	4,746	6,814	19,843	31,929	59,761	64,894	105,401	142,742	249,276
MAJOR GROUP 37—TRANSPORTATION EQUIPMENT											
Establishments.....number..	7,196	2,393	946	989	1,049	623	501	225	162	163	143
All employees:											
Total.....do....	1,601,158	4,125	6,452	13,805	33,304	43,205	78,804	79,467	112,493	265,111	964,572
Payroll.....$1,000..	11,858,240	21,218	31,494	70,263	178,008	238,890	448,384	478,593	740,923	2,016,921	7,634,440
Value added, adjusted.....do....	22,765,674	36,800	55,459	122,326	303,185	417,421	771,146	853,450	1,321,060	4,732,777	14,238,087
Value of shipments[2].....do....	55,428,194	75,434	111,070	235,580	616,361	891,486	1,610,428	1,711,640	2,756,890	13,696,002	33,803,625
Capital expenditures, new...do....	1,022,004	10,984	10,651	12,716	23,665	32,979	37,140	37,158	41,591	215,902	597,018
MAJOR GROUP 38—INSTRUMENTS AND RELATED PRODUCTS											
Establishments.....number..	3,949	1,447	644	515	543	325	235	126	57	42	14
All employees:											
Total.....do....	305,452	2,604	4,296	6,959	17,136	22,194	38,035	43,896	38,031	64,854	67,007
Payroll.....$1,000..	1,912,472	12,915	22,751	36,878	94,214	121,411	211,257	242,493	222,039	428,981	518,022
Value added, adjusted.....do....	3,992,131	28,426	46,838	72,446	171,684	226,305	455,192	523,655	511,986	881,179	1,073,764
Value of shipments[1].....do....	6,117,889	46,705	76,423	117,185	292,471	384,214	744,532	877,427	774,665	1,355,776	1,446,676
Capital expenditures, new...do....	191,865	3,406	1,621	3,249	6,685	8,901	18,989	17,937	21,018	46,382	63,671
MAJOR GROUP 39—MISCELLANEOUS MANUFACTURING											
Establishments.....number..	14,723	6,504	2,382	2,220	2,015	817	515	189	59	19	2
All employees:											
Total .....do....	390,760	11,138	15,988	30,634	62,367	57,222	78,079	63,779	39,042	32,019	(D)
Payroll.....$1,000..	1,812,104	46,121	68,392	134,130	280,435	257,979	355,755	299,417	193,674	172,696	(D)
Value added, adjusted.....do....	3,562,361	112,759	128,386	243,709	504,471	473,368	664,670	610,531	394,260	425,233	(D)
Value of shipments[1].....do....	6,494,830	209,385	260,891	460,956	963,448	910,168	1,239,844	1,094,465	693,569	652,161	(D)
Capital expenditures, new...do....	131,033	5,679	5,702	8,618	18,177	17,448	22,669	22,810	16,168	13,599	(D)

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of– 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
MAJOR GROUP 19—ORDNANCE AND ACCESSORIES											
Establishments.....number..	258	65	17	13	27	23	37	17	18	18	26
All employees:											
Total.....do....	245,934	83	123	179	889	1,805	6,077	6,260	13,947	29,026	187,775
Payroll.....$1,000..	1,956,954	586	801	875	4,975	10,122	35,189	39,271	82,394	217,401	1,565,389
Value added, adjusted.....do....	2,882,521	614	1,398	1,317	8,036	20,607	67,121	64,568	126,979	280,745	2,316,921
Value of shipments[1].....do....	4,784,047	1,816	6,258	2,030	14,726	39,178	119,913	142,026	258,566	483,251	3,696,889
Capital expenditures, new...do....	88,218	490	48	87	692	477	6,381	2,312	3,210	14,985	59,794
INDUSTRY 2011.—MEAT SLAUGHTERING PLANTS											
Establishments.....number..	2,992	1,228	403	385	456	221	165	67	34	24	9
All employees:											
Total.....do....	180,873	1,930	2,677	5,327	14,082	15,099	25,054	24,371	24,724	36,489	31,120
Payroll.....$1,000..	1,146,947	7,602	10,507	24,302	72,957	86,692	149,594	157,457	161,261	252,945	223,630
Value added, adjusted.....do....	1,908,309	28,412	32,301	59,577	157,671	163,977	274,379	247,260	252,392	340,259	352,081
Value of shipments.....do....	12,435,454	98,734	145,253	332,703	1,116,065	1,439,531	2,239,716	1,840,038	1,567,086	1,963,518	1,692,810
Capital expenditures, new...do....	80,235	[3]7,450	1,908	3,245	9,923	10,825	10,595	9,651	7,314	10,764	8,560
INDUSTRY 2013.—MEAT PROCESSING PLANTS											
Establishments.....number..	1,341	440	204	214	244	104	107	21	6	1	-
All employees:											
Total.....do....	48,599	854	1,355	3,027	7,669	7,365	15,930	7,443	4,956	(D)	-
Payroll.....$1,000..	289,405	3,329	5,977	15,043	42,589	41,395	99,991	47,988	33,093	(D)	-
Value added, adjusted.....do....	563,362	7,083	14,848	32,777	81,570	85,573	189,964	93,559	57,988	(D)	-
Value of shipments.....do....	2,130,275	28,331	48,810	106,730	306,842	299,872	730,027	394,194	215,469	(D)	-
Capital expenditures, new...do....	21,425	[4]1,472	504	1,375	3,160	3,206	6,853	2,987	1,868	(D)	-
INDUSTRY 2015.—POULTRY DRESSING PLANTS											
Establishments.....number..	967	220	91	98	157	146	201	45	9	-	-
All employees:											
Total.....do....	70,104	421	603	1,308	5,130	10,591	30,639	15,400	6,012	-	-
Payroll.....$1,000..	204,400	1,172	1,744	3,617	14,107	29,472	90,150	46,009	18,129	-	-
Value added, adjusted.....do....	410,909	3,966	5,056	9,970	32,248	59,503	185,556	86,420	28,190	-	-
Value of shipments.....do....	2,240,871	14,616	24,170	40,423	162,770	324,682	1,051,823	489,290	133,097	-	-
Capital expenditures, new...do....	34,306	[5]6,101	730	1,133	5,562	4,057	11,165	4,261	1,297	-	-
INDUSTRY 2021.—CREAMERY BUTTER											
Establishments.....number..	766	245	209	134	127	39	12	-	-	-	-
All employees:											
Total.....do....	11,992	559	1,389	1,825	3,899	2,691	1,629	-	-	-	-
Payroll.....$1,000..	52,870	2,126	5,221	7,320	18,522	11,716	7,965	-	-	-	-
Value added, adjusted.....do....	132,665	10,790	14,601	18,261	42,765	28,098	18,150	-	-	-	-
Value of shipments.....do....	988,777	44,705	113,870	138,668	370,155	204,769	116,610	-	-	-	-
Capital expenditures, new...do....	9,930	1,241	1,240	1,400	3,646	1,563	840	-	-	-	-
INDUSTRY 2022.—NATURAL AND PROCESS CHEESE											
Establishments.....number..	1,138	537	201	194	135	43	21	6	1	-	-
All employees:											
Total.....do....	17,956	1,125	1,347	2,678	4,213	2,863	3,132	2,598	(D)	-	-
Payroll.....$1,000..	78,684	4,058	4,595	10,572	18,136	12,834	14,549	13,940	(D)	-	-
Value added, adjusted.....do....	179,750	10,843	14,653	21,947	37,889	30,333	33,637	30,448	(D)	-	-
Value of shipments.....do....	1,170,836	90,988	79,853	129,447	210,606	154,203	208,758	296,981	(D)	-	-
Capital expenditures, new...do....	15,866	1,904	1,359	1,779	2,723	2,434	3,451	2,216	(D)	-	-
INDUSTRY 2023.—CONDENSED AND EVAPORATED MILK											
Establishments.....number..	281	35	32	48	79	56	29	2	-	-	-
All employees:											
Total.....do....	12,255	70	227	673	2,440	3,856	4,989	(D)	-	-	-
Payroll.....$1,000..	66,990	378	1,085	3,513	13,354	21,555	27,105	(D)	-	-	-
Value added, adjusted.....do....	236,250	1,098	2,952	8,628	42,729	78,074	102,769	(D)	-	-	-
Value of shipments.....do....	937,925	4,206	10,496	44,695	188,527	319,970	370,031	(D)	-	-	-
Capital expenditures, new...do....	12,113	[6]579	171	1,217	2,970	2,461	4,715	(D)	-	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2024.—ICE CREAM AND FROZEN DESSERTS											
Establishments.....number..	1,081	321	172	201	212	109	59	7	-	-	-
All employees:											
Total.....do....	29,143	615	1,198	2,726	6,551	7,436	8,476	2,141	-	-	-
Payroll.....$1,000..	158,257	2,202	5,001	11,967	33,529	41,450	48,488	15,620	-	-	-
Value added, adjusted.....do....	433,006	6,288	11,312	30,179	102,687	115,316	130,562	36,662	-	-	-
Value of shipments.....do....	1,076,479	15,688	29,623	77,983	258,907	293,402	319,127	81,749	-	-	-
Capital expenditures, new...do....	31,915	[5]2,916	1,125	2,419	6,847	8,850	6,579	3,179	-	-	-
INDUSTRY 2026.—FLUID MILK											
Establishments.....number..	4,619	1,112	752	806	936	512	402	81	17	1	-
All employees:											
Total.....do....	185,050	2,586	5,108	11,252	29,611	35,764	61,570	26,478	12,681	(D)	-
Payroll.....$1,000..	1,032,879	10,780	20,660	51,229	149,421	200,669	363,559	159,760	76,801	(D)	-
Value added, adjusted.....do....	2,203,196	28,074	49,186	105,854	318,394	439,367	769,672	340,475	152,174	(D)	-
Value of shipments.....do....	7,025,892	106,755	186,953	387,467	1,104,245	1,432,371	2,383,861	974,264	449,976	(D)	-
Capital expenditures, new...do....	126,147	[3]8,502	4,594	10,230	21,505	19,447	40,573	15,007	6,289	(D)	-
INDUSTRY 2031.—CANNED AND CURED SEAFOODS											
Establishments.....number..	405	89	60	60	118	48	22	4	2	2	-
All employees:											
Total.....do....	17,271	174	431	859	3,921	3,288	3,255	1,379	3,964	(D)	-
Payroll.....$1,000..	66,231	656	1,629	3,759	14,257	13,093	11,388	4,544	16,905	(D)	-
Value added, adjusted.....do....	174,634	1,710	3,382	8,838	35,122	32,210	26,822	22,773	43,777	(D)	-
Value of production.....do....	452,454	8,939	10,459	23,490	85,096	74,902	70,721	50,964	127,883	(D)	-
Capital expenditures, new...do....	6,296	[4]1,103	185	443	1,476	1,118	1,059	213	699	(D)	-
INDUSTRY 2032.—CANNED SPECIALTIES											
Establishments.....number..	173	54	21	21	26	12	13	14	6	4	2
All employees:											
Total.....do....	25,156	93	141	263	873	872	2,161	5,027	15,726	(D)	(D)
Payroll.....$1,000..	127,168	343	535	923	3,487	3,635	9,043	22,999	86,203	(D)	(D)
Value added, adjusted.....do....	540,835	904	1,178	2,172	10,518	9,443	28,279	108,027	380,314	(D)	(D)
Value of production.....do....	1,169,299	2,172	3,057	5,667	26,616	23,811	81,248	247,138	779,590	(D)	(D)
Capital expenditures, new...do....	25,582	[3]12,279	(D)	(D)	(D)	(D)	1,031	2,565	9,707	(D)	(D)
INDUSTRY 2033.—CANNED FRUITS AND VEGETABLES											
Establishments.....number..	1,430	276	131	187	322	225	211	55	20	2	1
All employees:											
Total.....do....	102,388	564	871	2,669	10,665	15,901	32,649	19,187	13,186	6,696	(D)
Payroll.....$1,000..	382,057	1,863	2,819	10,040	33,119	54,738	122,345	83,188	51,528	22,417	(D)
Value added, adjusted.....do....	1,029,467	5,191	7,641	28,011	80,496	131,260	343,118	231,908	138,077	63,765	(D)
Value of production.....do....	2,742,787	13,459	19,921	72,356	230,687	369,875	911,258	626,317	355,616	143,298	(D)
Capital expenditures, new...do....	66,574	[4]1,464	454	1,400	4,678	8,770	20,469	14,611	10,403	4,325	(D)
INDUSTRY 2034.—DEHYDRATED FOODS PRODUCTS											
Establishments.....number..	176	42	28	26	35	22	13	7	3	-	-
All employees:											
Total.....do....	9,152	83	191	340	1,094	1,596	1,908	2,282	1,658	-	-
Payroll.....$1,000..	41,650	378	742	1,278	3,714	7,198	8,607	11,276	8,457	-	-
Value added, adjusted.....do....	115,795	947	2,055	4,604	10,354	15,979	19,811	44,980	17,065	-	-
Value of shipments .....do....	318,660	2,932	4,792	13,053	42,807	41,577	68,133	87,697	57,669	-	-
Capital expenditures, new...do....	16,199	193	215	627	1,345	1,234	2,758	3,343	6,484	-	-
INDUSTRY 2035.—PICKLES, SAUCES, SALAD DRESSINGS											
Establishments.....number..	588	213	89	102	94	34	42	13	1	-	-
All employees:											
Total.....do....	19,041	398	614	1,400	2,867	2,321	6,615	4,826	(D)	-	-
Payroll.....$1,000..	83,713	1,234	2,338	5,760	11,972	9,459	29,251	23,699	(D)	-	-
Value added, adjusted.....do....	249,397	3,030	5,475	13,107	29,716	30,742	78,337	88,990	(D)	-	-
Value of production.....do....	677,268	7,830	14,599	36,266	77,431	72,437	235,988	232,717	(D)	-	-
Capital expenditures, new...do....	10,967	[7]451	252	527	838	1,092	5,197	2,610	(D)	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2036.—FRESH OR FROZEN PACKAGED FISH											
Establishments.....number..	547	118	78	96	149	66	28	9	3	-	-
All employees:											
Total.....do....	20,066	260	532	1,360	4,649	4,425	4,295	2,678	1,867	-	-
Payroll.....$1,000..	56,471	717	1,445	3,868	12,386	9,972	13,605	10,243	4,235	-	-
Value added, adjusted.....do....	118,451	2,407	4,196	9,553	23,022	19,055	33,423	16,535	10,260	-	-
Value of production.....do....	391,174	7,173	9,888	28,569	73,869	59,084	107,780	68,489	36,322	-	-
Capital expenditures, new...do....	6,095	227	288	684	1,556	934	1,519	368	519	-	-
INDUSTRY 2037.—FROZEN FRUITS AND VEGETABLES											
Establishments.....number..	650	139	76	89	106	88	100	36	14	2	-
All employees:											
Total.....do....	51,750	258	525	1,258	3,318	6,182	15,292	12,809	12,108	(D)	-
Payroll.....$1,000..	202,398	989	1,927	4,786	13,892	25,450	59,598	46,656	49,100	(D)	-
Value added, adjusted.....do....	550,231	3,027	5,683	11,502	36,791	67,318	165,984	109,136	150,790	(D)	-
Value of production.....do....	1,548,663	8,478	15,953	30,870	102,909	195,141	498,284	303,118	393,910	(D)	-
Capital expenditures, new...do....	44,569	[3]12,655	381	986	2,228	3,885	8,310	7,928	8,196	(D)	-
INDUSTRY 2041.—FLOUR MILLS											
Establishments.....number..	618	235	90	75	88	63	56	8	3	-	-
All employees:											
Total.....do....	22,405	383	585	1,040	2,937	4,441	8,457	2,688	1,874	-	-
Payroll.....$1,000..	137,663	1,431	2,301	4,526	16,565	27,876	54,396	18,705	11,863	-	-
Value added, adjusted.....do....	373,090	4,506	6,856	11,739	38,680	75,927	147,405	59,129	28,848	-	-
Value of shipments.....do....	2,176,529	16,055	22,998	54,701	273,300	518,365	865,333	267,822	157,955	-	-
Capital expenditures, new...do....	23,485	373	738	762	3,026	3,672	9,129	3,509	2,276	-	-
INDUSTRY 2042.—PREPARED ANIMAL FEEDS											
Establishments.....number..	2,590	770	540	569	457	164	74	14	2	-	-
All employees:											
Total.....do....	54,649	1,638	3,673	7,744	13,895	11,108	10,826	5,765	(D)	-	-
Payroll.....$1,000..	278,729	6,183	15,221	35,629	69,353	59,046	60,524	32,773	(D)	-	-
Value added, adjusted.....do....	983,691	22,964	46,804	106,237	228,059	210,374	229,652	139,601	(D)	-	-
Value of shipments.....do....	3,880,122	80,852	187,708	461,157	1,016,198	866,103	860,994	407,110	(D)	-	-
Capital expenditures, new...do....	53,394	[4]4,089	4,285	10,443	12,533	9,541	7,106	5,347	(D)	-	-
INDUSTRY 2043.—CEREAL PREPARATIONS											
Establishments.....number..	48	10	6	2	10	5	3	6	4	1	1
All employees:											
Total.....do....	11,358	14	71	(D)	1,226	(D)	(D)	1,947	8,100	(D)	(D)
Payroll.....$1,000..	75,098	79	301	(D)	6,952	(D)	(D)	13,051	54,715	(D)	(D)
Value added, adjusted.....do....	365,022	290	1,043	(D)	41,838	(D)	(D)	45,321	276,530	(D)	(D)
Value of shipments.....do....	625,058	572	3,582	(D)	85,051	(D)	(D)	85,210	450,643	(D)	(D)
Capital expenditures, new...do....	15,273	16	316	(D)	447	(D)	(D)	1,309	13,185	(D)	(D)
INDUSTRY 2044.—RICE MILLING											
Establishments.....number..	74	9	9	7	21	17	9	2	-	-	-
All employees:											
Total.....do....	4,256	20	58	114	769	1,222	2,073	(D)	-	-	-
Payroll.....$1,000..	20,255	75	250	445	2,985	5,305	11,195	(D)	-	-	-
Value added, adjusted.....do....	80,507	308	1,204	3,782	8,745	17,541	48,927	(D)	-	-	-
Value of shipments.....do....	423,022	831	2,707	10,687	76,314	120,454	212,029	(D)	-	-	-
Capital expenditures, new...do....	3,299	7	16	97	136	2,317	726	(D)	-	-	-
INDUSTRY 2045.—BLENDED AND PREPARED FLOUR											
Establishments.....number..	165	63	27	15	22	17	14	6	1	-	-
All employees:											
Total.....do....	7,199	102	187	196	773	1,230	2,064	2,647	(D)	-	-
Payroll.....$1,000..	45,391	596	907	976	4,400	7,975	12,495	18,047	(D)	-	-
Value added, adjusted.....do....	177,826	1,343	2,211	2,807	11,863	28,453	47,792	83,357	(D)	-	-
Value of shipments.....do....	434,023	3,897	5,740	6,652	32,812	77,001	117,071	190,850	(D)	-	-
Capital expenditures, new...do....	6,142	81	131	133	273	805	2,183	2,536	(D)	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2046.—WET CORN MILLING											
Establishments.....number..	60	19	12	9	5	1	3	2	4	4	1
All employees:											
Total.....do....	13,236	28	84	138	149	1,514	(D)	(D)	2,787	8,536	(D)
Payroll.....$1,000..	89,742	165	520	572	721	10,135	(D)	(D)	19,478	58,151	(D)
Value added, adjusted.....do....	290,918	853	1,478	1,181	2,296	39,951	(D)	(D)	56,666	188,493	(D)
Value of shipments.....do....	622,442	1,602	3,307	2,940	5,344	91,912	(D)	(D)	124,191	393,146	(D)
Capital expenditures, new...do....	26,129	85	74	30	867	2,861	(D)	(D)	5,043	17,169	(D)
INDUSTRY 2051.—BREAD AND RELATED PRODUCTS											
Establishments.....number..	5,010	1,579	797	730	764	448	496	151	38	6	1
All employees:											
Total.....do....	236,984	3,156	5,348	10,086	23,951	32,116	77,409	50,236	25,423	9,259	(D)
Payroll.....$1,000..	1,300,329	10,156	18,384	38,308	100,897	166,149	450,206	302,953	158,008	55,268	(D)
Value added, adjusted.....do....	2,403,782	21,913	31,959	65,719	170,398	318,095	864,389	575,766	266,334	89,209	(D)
Value of shipments.....do....	4,505,995	45,544	65,634	125,457	330,286	595,055	1,642,786	1,065,591	476,617	159,025	(D)
Capital expenditures, new...do....	95,280	[5]5,035	1,702	2,561	6,114	15,201	33,003	19,777	8,060	3,827	(D)
Subindustry 2051-12.—Bread and Related Products—WHOLESALE BAKERIES											
Establishments.....number..	4,287	1,417	702	622	624	366	413	121	20	2	-
All employees:											
Total.....do....	180,428	2,844	4,694	8,613	19,664	26,330	64,376	39,597	14,312	(D)	-
Payroll.....$1,000..	1,000,188	8,856	16,176	33,310	84,674	139,591	381,112	242,280	94,189	(D)	-
Value added, adjusted.....do....	1,868,219	19,646	28,578	57,919	144,015	266,924	727,965	460,862	162,310	(D)	-
Value of shipments.....do....	3,508,209	41,001	58,194	110,087	281,699	496,170	1,380,724	846,743	293,591	(D)	-
Capital expenditures, new...do....	81,321	[5]4,965	1,567	2,351	5,328	12,826	29,791	17,264	7,229	(D)	-
Subindustry 2051-13.—Bread and Related Products—GROCERY CHAIN BAKERIES											
Establishments.....number..	153	7	12	12	25	29	49	14	5	-	-
All employees:											
Total.....do....	19,074	12	88	159	755	2,079	7,744	8,237	(D)	-	-
Payroll.....$1,000..	111,739	54	407	845	3,877	11,628	43,565	51,363	(D)	-	-
Value added, adjusted.....do....	225,947	85	805	1,454	7,397	27,097	89,029	100,080	(D)	-	-
Value of shipments.....do....	465,528	160	1,685	2,618	14,832	54,498	181,657	210,078	(D)	-	-
Capital expenditures, new...do....	6,850	-	17	22	231	1,467	2,320	2,793	(D)	-	-
Subindustry 2051-14.—Bread and Related Products—HOME SERVICE BAKERIES											
Establishments.....number..	281	110	45	29	29	20	23	11	10	3	1
All employees:											
Total.....do....	23,964	213	296	370	863	1,504	3,504	3,931	13,283	(D)	(D)
Payroll.....$1,000..	127,007	617	919	1,143	3,503	6,682	18,291	18,992	76,860	(D)	(D)
Value added, adjusted.....do....	201,492	1,201	1,483	1,696	5,313	9,619	31,874	34,107	116,199	(D)	(D)
Value of shipments.....do....	333,464	2,441	3,263	3,867	10,040	18,520	53,721	58,129	183,483	(D)	(D)
Capital expenditures, new...do....	4,314	45	70	62	182	429	672	459	2,395	(D)	(D)
Subindustry 2051-16.—Bread and Related Products—RETAIL MULTI-OUTLET BAKERIES											
Establishments.....number..	289	45	38	67	86	33	11	5	3	1	-
All employees:											
Total.....do....	13,518	87	270	944	2,669	2,203	1,785	5,560	(D)	(D)	-
Payroll.....$1,000..	61,395	629	882	3,010	8,843	8,248	7,238	32,545	(D)	(D)	-
Value added, adjusted.....do....	108,124	981	1,093	4,650	13,673	14,455	15,521	57,751	(D)	(D)	-
Value of shipments.....do....	198,794	1,942	2,492	8,885	23,715	25,867	26,684	109,209	(D)	(D)	-
Capital expenditures, new...do....	2,795	25	48	132	367	479	220	1,524	(D)	(D)	-
INDUSTRY 2052.—BISCUITS, CRACKERS, AND COOKIES											
Establishments.....number..	356	68	36	44	83	41	41	14	23	5	1
All employees:											
Total.....do....	43,160	135	254	586	2,686	2,846	6,275	4,610	15,242	10,526	(D)
Payroll.....$1,000..	213,021	693	1,045	2,220	11,810	13,090	27,577	20,614	77,408	58,564	(D)
Value added, adjusted.....do....	627,040	1,629	2,020	4,304	25,715	28,658	65,749	43,547	247,487	207,931	(D)
Value of shipments.....do....	1,150,149	3,859	4,834	8,075	52,632	64,139	141,454	91,938	450,957	332,261	(D)
Capital expenditures, new...do....	26,429	[3]7,673	(D)	(D)	(D)	1,514	3,912	2,103	5,907	5,320	(D)

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2061.—RAW CANE SUGAR											
Establishments.....number..	74	-	-	1	17	24	27	4	-	1	-
All employees:											
Total.....do....	8,263	-	-	649	(D)	1,703	3,752	2,159	-	(D)	-
Payroll.....$1,000..	38,796	-	-	2,827	(D)	7,628	18,319	10,022	-	(D)	-
Value added, adjusted.....do....	135,686	-	-	11,356	(D)	28,356	68,573	27,401	-	(D)	-
Value of shipments.....do....	378,710	-	-	30,630	(D)	83,845	196,155	68,080	-	(D)	-
Capital expenditures, new...do....	19,289	-	-	600	(D)	5,271	9,464	3,954	-	(D)	-
INDUSTRY 2062.—CANE SUGAR REFINING											
Establishments.....number..	25	-	-	-	3	2	3	5	10	2	-
All employees:											
Total.....do....	12,443	-	-	-	119	605	(D)	1,786	9,930	(D)	-
Payroll.....$1,000..	90,792	-	-	-	786	3,728	(D)	12,237	74,041	(D)	-
Value added, adjusted.....do....	254,418	-	-	-	6,029	6,997	(D)	45,359	196,033	(D)	-
Value of shipments.....do....	1,271,229	-	-	-	40,598	58,974	(D)	195,575	976,082	(D)	-
Capital expenditures, new...do....	16,209	-	-	-	112	506	(D)	810	14,781	(D)	-
INDUSTRY 2063.—BEET SUGAR											
Establishments.....number..	65	2	1	-	2	2	49	8	1	-	-
All employees:											
Total.....do....	11,297	250	(D)	-	(D)	(D)	7,919	3,128	(D)	-	-
Payroll.....$1,000..	59,641	1,208	(D)	-	(D)	(D)	43,585	14,848	(D)	-	-
Value added, adjusted.....do....	200,698	5,639	(D)	-	(D)	(D)	130,684	64,375	(D)	-	-
Value of shipments.....do....	564,073	16,018	(D)	-	(D)	(D)	371,254	176,801	(D)	-	-
Capital expenditures, new...do....	38,113	[18] 16,826	(D)	-	(D)	(D)	18,878	2,409	(D)	-	-
INDUSTRY 2071.—CONFECTIONERY PRODUCTS											
Establishments.....number..	1,211	426	190	184	172	98	88	33	13	7	-
All employees:											
Total.....do....	63,643	738	1,267	2,601	5,588	7,040	13,735	11,699	9,876	11,099	-
Payroll.....$1,000..	269,680	2,233	3,837	8,698	20,410	27,903	56,238	52,212	43,883	54,266	-
Value added, adjusted.....do....	635,393	6,716	9,107	19,992	44,602	72,728	128,142	124,042	101,769	128,295	-
Value of shipments.....do....	1,454,512	15,398	21,140	50,660	117,117	166,467	308,609	275,869	229,283	269,969	-
Capital expenditures, new...do....	28,094	464	643	1,114	2,264	4,014	5,812	5,270	2,223	6,290	-
INDUSTRY 2072.—CHOCOLATE AND COCOA PRODUCTS											
Establishments.....number..	28	2	1	2	2	10	5	3	1	1	1
All employees:											
Total.....do....	8,743	96	(D)	(D)	(D)	651	929	1,041	6,026	(D)	(D)
Payroll.....$1,000..	49,305	513	(D)	(D)	(D)	3,783	5,743	5,896	33,370	(D)	(D)
Value added, adjusted.....do....	184,796	1,147	(D)	(D)	(D)	9,853	21,356	14,600	137,840	(D)	(D)
Value of shipments.....do....	479,085	7,296	(D)	(D)	(D)	47,873	62,275	38,825	322,816	(D)	(D)
Capital expenditures, new...do....	8,371	[19] 3,708	(D)	(D)	(D)	(D)	825	628	3,219	(D)	(D)
INDUSTRY 2073.—CHEWING GUM											
Establishments.....number..	24	1	2	4	3	3	5	2	3	1	-
All employees:											
Total.....do....	5,558	83	(D)	(D)	87	218	1,406	(D)	3,774	(D)	-
Payroll.....$1,000..	30,997	410	(D)	(D)	354	1,126	7,457	(D)	21,650	(D)	-
Value added, adjusted.....do....	135,848	1,118	(D)	(D)	590	1,868	34,478	(D)	97,794	(D)	-
Value of shipments.....do....	224,844	3,007	(D)	(D)	1,522	4,643	60,754	(D)	154,918	(D)	-
Capital expenditures, new...do....	2,881	34	(D)	(D)	48	131	680	(D)	1,988	(D)	-
INDUSTRY 2082.—MALT LIQUOR											
Establishments.....number..	222	17	6	19	31	30	52	33	23	8	3
All employees:											
Total.....do....	62,643	27	39	294	1,042	2,062	8,609	11,367	15,565	13,316	10,322
Payroll.....$1,000..	470,823	139	198	1,368	5,587	11,472	57,490	82,172	121,030	112,450	78,917
Value added, adjusted.....do....	1,286,036	271	353	3,185	13,890	25,294	164,024	245,294	322,439	296,814	214,472
Value of shipments.....do....	2,315,068	463	733	5,630	21,697	46,051	295,521	454,636	591,082	499,937	399,318
Capital expenditures, new...do....	86,217	[5] 4,858	(D)	(D)	(D)	896	7,469	10,796	21,320	20,555	20,323

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963 —Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2083.—MALT											
Establishments.....number..	42	2	1	8	16	11	4	-	-	-	-
All employees:											
Total.....do....	1,925	140	(D)	(D)	547	740	498	-	-	-	-
Payroll.....$1,000..	15,084	1,101	(D)	(D)	4,405	5,639	3,939	-	-	-	-
Value added, adjusted.....do....	43,979	3,091	(D)	(D)	13,296	15,170	12,422	-	-	-	-
Value of shipments.....do....	183,515	10,418	(D)	(D)	47,538	71,381	54,178	-	-	-	-
Capital expenditures, new...do....	3,002	1,568	(D)	(D)	(D)	480	954	-	-	-	-
INDUSTRY 2084.—WINES AND BRANDY											
Establishments.....number..	222	73	35	44	44	15	7	3	1	-	-
All employees:											
Total.....do....	6,111	132	234	601	1,465	1,062	1,117	1,500	(D)	-	-
Payroll.....$1,000..	35,051	549	1,175	3,035	8,534	6,234	6,325	9,199	(D)	-	-
Value added, adjusted.....do....	137,281	1,551	5,929	12,109	29,867	22,692	31,009	34,124	(D)	-	-
Value of shipments.....do....	[10]368,281	[10]3,093	[10]12,391	[10]30,792	[10]92,847	[10]62,732	[10]68,414	[10]98,012	(D)	-	-
Capital expenditures, new...do....	7,303	101	218	624	1,505	1,931	776	2,150	(D)	-	-
INDUSTRY 2085.—DISTILLED LIQUOR, EXCEPT BRANDY											
Establishments.....number..	107	7	6	5	33	18	17	9	10	2	-
All employees:											
Total.....do....	18,009	16	44	78	1,196	1,308	2,967	3,396	9,004	(D)	-
Payroll.....$1,000..	110,217	97	207	411	6,816	7,616	18,478	21,696	54,896	(D)	-
Value added, adjusted.....do....	623,736	434	272	2,541	19,214	38,939	117,405	125,004	319,927	(D)	-
Value of production.....do....	1,090,462	1,602	2,602	6,495	55,995	80,538	186,945	210,110	546,175	(D)	-
Capital expenditures, new...do....	15,480	87	(D)	175	1,217	670	2,384	1,754	9,193	(D)	-
INDUSTRY 2086.—BOTTLED AND CANNED SOFT DRINKS											
Establishments.....number..	3,905	770	601	1,004	1,033	308	159	25	5	-	-
All employees:											
Total.....do....	106,850	1,657	4,216	14,151	31,678	20,891	22,491	8,563	3,203	-	-
Payroll.....$1,000..	537,743	6,212	16,670	59,086	146,002	108,506	129,117	50,661	21,489	-	-
Value added, adjusted.....do....	1,233,629	13,779	36,950	141,490	344,539	248,756	295,432	111,622	41,061	-	-
Value of shipments.....do....	2,210,920	28,546	72,533	258,833	612,123	453,141	535,180	183,316	67,248	-	-
Capital expenditures, new...do....	100,771	[4]2,683	2,766	8,992	28,360	20,695	26,045	9,447	1,783	-	-
INDUSTRY 2087.—FLAVORINGS											
Establishments.....number..	520	250	97	76	54	24	16	1	2	-	-
All employees:											
Total.....do....	9,083	437	640	1,059	1,602	1,584	2,265	1,496	(D)	-	-
Payroll.....$1,000..	56,576	2,187	3,797	6,335	10,359	9,675	15,389	8,834	(D)	-	-
Value added, adjusted.....do....	400,173	8,210	11,145	39,354	66,982	121,710	64,696	88,076	(D)	-	-
Value of shipments.....do....	729,704	18,761	23,824	69,954	113,424	219,626	127,647	156,468	(D)	-	-
Capital expenditures, new...do....	12,311	[5]3,343	438	402	873	3,522	2,404	1,329	(D)	-	-
INDUSTRY 2091.—COTTONSEED OIL MILLS											
Establishments.....number..	188	13	7	15	100	40	12	1	-	-	-
All employees:											
Total.....do....	8,372	26	50	226	3,368	2,642	2,060	(D)	-	-	-
Payroll.....$1,000..	38,173	116	210	855	14,360	11,795	10,837	(D)	-	-	-
Value added, adjusted.....do....	100,815	395	62	5,492	35,896	30,939	28,031	(D)	-	-	-
Value of shipments.....do....	555,188	2,935	4,128	25,924	204,135	170,009	148,057	(D)	-	-	-
Capital expenditures, new...do....	12,475	14	17	82	4,497	2,139	5,726	(D)	-	-	-
INDUSTRY 2092.—SOYBEAN OIL MILLS											
Establishments.....number..	102	16	6	9	25	33	6	7	-	-	-
All employees:											
Total.....do....	6,478	27	43	137	930	2,281	848	2,212	-	-	-
Payroll.....$1,000..	39,893	118	173	766	5,606	13,649	4,890	14,691	-	-	-
Value added, adjusted.....do....	152,143	398	2,722	5,594	20,702	65,412	14,159	43,156	-	-	-
Value of shipments.....do....	1,473,385	1,938	6,480	24,087	248,285	693,746	165,819	333,030	-	-	-
Capital expenditures, new...do....	10,238	46	35	320	753	4,320	1,025	3,739	-	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2093.—VEGETABLE OIL MILLS, N.E.C.											
Establishments.....number..	47	12	4	9	9	7	6	-	-	-	-
All employees:											
Total.....do....	1,952	19	26	124	269	548	966	-	-	-	-
Payroll.....$1,000..	11,501	137	96	668	1,509	3,401	5,690	-	-	-	-
Value added, adjusted.....do....	42,692	502	448	1,340	5,649	12,788	21,965	-	-	-	-
Value of shipments.....do....	234,168	1,077	598	7,262	27,785	87,364	110,082	-	-	-	-
Capital expenditures, new...do....	1,561	28	14	127	243	776	373	-	-	-	-
INDUSTRY 2094.—ANIMAL AND MARINE FATS AND OILS											
Establishments.....number..	615	130	113	161	140	50	19	2	-	-	-
All employees:											
Total.....do....	14,276	246	773	2,258	4,367	3,273	3,359	(D)	-	-	-
Payroll.....$1,000..	78,305	1,444	3,807	12,209	22,852	18,318	19,675	(D)	-	-	-
Value added, adjusted.....do....	193,326	4,048	9,312	28,522	60,563	40,901	49,980	(D)	-	-	-
Value of shipments.....do....	473,993	9,068	20,851	71,482	160,729	97,299	114,564	(D)	-	-	-
Capital expenditures, new...do....	13,659	483	483	2,206	4,838	3,681	1,968	(D)	-	-	-
INDUSTRY 2096.—SHORTENING AND COOKING OILS											
Establishments.....number..	115	14	6	9	16	23	35	8	3	1	-
All employees:											
Total.....do....	13,511	18	39	124	596	1,621	5,896	2,552	2,665	(D)	-
Payroll.....$1,000..	88,606	72	209	716	3,403	9,385	38,364	17,953	18,504	(D)	-
Value added, adjusted.....do....	264,501	411	1,200	1,660	13,983	31,939	115,928	48,558	50,822	(D)	-
Value of shipments.....do....	1,324,357	2,332	2,295	7,620	57,719	149,822	642,221	278,609	183,739	(D)	-
Capital expenditures, new...do....	19,490	[5]4,617	42	587	259	1,630	6,243	1,970	4,142	(D)	-
INDUSTRY 2095.—ROASTED COFFEE											
Establishments.....number..	324	78	61	52	63	29	27	8	5	1	-
All employees:											
Total.....do....	17,175	185	410	778	2,008	2,048	4,583	2,722	4,441	(D)	-
Payroll.....$1,000..	111,429	806	1,954	4,403	11,911	13,260	30,574	18,109	30,412	(D)	-
Value added, adjusted.....do....	616,407	3,288	5,581	11,940	52,463	63,154	127,517	119,138	233,326	(D)	-
Value of shipments.....do....	1,868,058	11,637	19,793	69,128	205,239	206,269	453,656	325,694	576,642	(D)	-
Capital expenditures, new...do....	23,459	54	154	330	1,428	5,278	5,818	2,944	7,453	(D)	-
INDUSTRY 2097.—MANUFACTURED ICE											
Establishments.....number..	1,199	517	315	232	118	16	1	-	-	-	-
All employees:											
Total.....do....	10,757	1,139	2,092	3,106	3,314	1,106	(D)	-	-	-	-
Payroll.....$1,000..	42,872	3,752	7,691	12,168	14,180	5,081	(D)	-	-	-	-
Value added, adjusted.....do....	90,204	8,172	15,777	25,373	30,719	10,163	(D)	-	-	-	-
Value of shipments.....do....	122,550	13,254	23,179	34,642	38,388	13,087	(D)	-	-	-	-
Capital expenditures, new...do....	5,741	575	815	1,416	2,618	317	(D)	-	-	-	-
INDUSTRY 2098.—MACARONI AND SPAGHETTI											
Establishments.....number..	221	75	44	32	26	18	22	4	-	-	-
All employees:											
Total.....do....	7,270	167	302	480	845	1,239	3,029	1,208	-	-	-
Payroll.....$1,000..	35,495	483	985	1,793	3,669	6,168	15,569	6,828	-	-	-
Value added, adjusted.....do....	96,012	1,197	2,042	3,982	9,346	14,998	41,028	23,419	-	-	-
Value of shipments.....do....	222,947	3,670	4,996	10,317	22,332	36,377	95,624	49,631	-	-	-
Capital expenditures, new...do....	4,786	84	133	168	481	1,134	1,889	897	-	-	-
INDUSTRY 2099.—FOOD PREPARATIONS, N.E.C.											
Establishments.....number..	2,190	842	415	386	309	121	87	24	6	-	-
All employees:											
Total.....do....	54,277	1,592	2,835	5,288	9,875	8,156	13,889	8,794	3,848	-	-
Payroll.....$1,000..	271,283	4,994	10,863	20,236	44,933	40,596	76,699	51,191	21,771	-	-
Value added, adjusted.....do....	849,601	16,185	31,094	52,605	131,655	128,074	223,901	185,268	80,819	-	-
Value of shipments.....do....	1,797,284	36,776	69,491	126,235	296,325	268,588	468,394	371,916	159,559	-	-
Capital expenditures, new...do....	62,145	[11]23,665	(D)	3,217	7,718	7,596	10,040	7,324	2,585	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2111.—CIGARETTES											
Establishments.....number..	14	-	-	-	-	-	1	-	-	10	3
All employees:											
Total.....do....	35,568	-	-	-	-	-	19,361	-	-	(D)	16,207
Payroll.....$1,000..	183,046	-	-	-	-	-	97,506	-	-	(D)	85,540
Value added, adjusted.....do....	1,310,325	-	-	-	-	-	714,203	-	-	(D)	596,122
Value of production.....do....	2,655,346	-	-	-	-	-	1,444,784	-	-	(D)	1,210,562
Capital expenditures, new...do....	29,651	-	-	-	-	-	14,813	-	-	(D)	14,838
INDUSTRY 2121.—CIGARS											
Establishments.....number..	193	82	14	15	18	15	21	18	7	3	-
All employees:											
Total.....do....	20,731	141	313	(D)	532	1,103	10,207	(D)	8,435	(D)	-
Payroll.....$1,000..	68,108	230	780	(D)	1,374	3,259	33,820	(D)	28,645	(D)	-
Value added, adjusted.....do....	192,998	548	1,088	(D)	2,563	7,137	103,023	(D)	78,639	(D)	-
Value of production.....do....	358,463	1,026	2,358	(D)	5,017	14,127	189,012	(D)	146,923	(D)	-
Capital expenditures, new...do....	4,246	22	46	(D)	60	134	3,024	(D)	960	(D)	-
INDUSTRY 2131.—CHEWING AND SMOKING TOBACCO											
Establishments.....number..	51	11	5	1	7	4	9	5	-	-	-
All employees:											
Total.....do....	4,058	16	36	117	213	251	1,653	1,772	-	-	-
Payroll.....$1,000..	18,207	65	131	578	817	1,352	6,642	8,622	-	-	-
Value added, adjusted.....do....	73,975	161	261	920	4,012	5,923	27,911	34,787	-	-	-
Value of production.....do....	139,543	334	733	2,325	8,846	10,975	53,993	62,337	-	-	-
Capital expenditures, new...do....	927	-	3	12	48	87	371	406	-	-	-
INDUSTRY 2141.—TOBACCO STEMMING AND REDRYING											
Establishments.....number..	136	13	5	8	28	34	23	21	4	-	-
All employees:											
Total.....do....	16,973	190	(D)	(D)	904	2,320	3,847	7,090	2,622	-	-
Payroll.....$1,000..	61,137	1,560	(D)	(D)	3,887	8,478	13,860	24,527	8,825	-	-
Value added, adjusted.....do....	103,296	1,121	(D)	(D)	10,716	13,401	19,359	48,205	10,494	-	-
Value of production.....do....	1,366,602	30,520	(D)	(D)	51,378	113,919	298,006	778,444	94,335	-	-
Capital expenditures, new...do....	19,019	6,866	(D)	(D)	(D)	(D)	1,074	10,606	473	-	-
INDUSTRY 2211.—WEAVING MILLS, COTTON											
Establishments.....number..	407	27	15	15	25	18	59	109	87	49	3
All employees:											
Total.....do....	208,993	352	(D)	(D)	823	1,296	10,537	40,425	60,914	68,999	25,647
Payroll.....$1,000..	771,573	1,410	(D)	(D)	3,411	4,997	37,394	146,464	226,103	256,423	95,371
Value added, adjusted.....do....	1,256,753	3,103	(D)	(D)	6,249	8,539	63,496	226,414	374,137	427,181	147,634
Value of shipments.....do....	3,104,053	6,289	(D)	(D)	11,774	18,987	155,434	554,318	916,851	1,088,306	352,094
Capital expenditures, new...do....	113,366	6,307	(D)	(D)	141	98	18,735	17,143	29,261	31,056	10,625
INDUSTRY 2221.—WEAVING MILLS, SYNTHETIC											
Establishments.....number..	355	24	10	21	49	65	65	71	36	14	-
All employees:											
Total.....do....	88,157	48	64	307	1,647	4,514	10,522	25,672	25,142	20,241	-
Payroll.....$1,000..	366,045	200	314	1,320	7,005	18,633	44,397	106,681	102,551	84,944	-
Value added, adjusted.....do....	661,535	411	701	2,463	12,161	27,629	84,509	188,423	201,137	144,101	-
Value of shipments.....do....	1,722,356	757	1,441	4,809	24,576	71,564	227,492	542,405	482,342	366,970	-
Capital expenditures, new...do....	35,798	19	27	40	171	1,233	2,462	10,159	12,150	9,537	-
INDUSTRY 2231.—WEAVING, FINISHING MILLS, WOOL											
Establishments.....number..	361	43	33	36	63	50	73	46	15	2	-
All employees:											
Total.....do....	47,429	68	221	511	1,988	3,368	12,578	15,750	12,945	(D)	-
Payroll.....$1,000..	202,892	459	873	2,172	9,023	14,269	51,413	69,631	55,052	(D)	-
Value added, adjusted.....do....	386,622	997	1,890	3,741	16,960	21,038	82,672	141,750	117,574	(D)	-
Value of shipments.....do....	1,010,692	3,067	3,080	8,370	33,690	47,336	197,320	373,877	343,952	(D)	-
Capital expenditures. new...do....	15,539	35	69	117	298	553	3,186	5,448	5,833	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
Subindustry 2231-11.—Weaving, Finishing Own Wool Fabrics—MANUFACTURERS											
Establishments.....number..	241	35	19	16	20	30	60	44	15	2	-
All employees:											
Total.....do....	41,811	55	122	212	598	2,040	25,839	(D)	12,945	(D)	-
Payroll.....$1,000..	177,432	276	432	836	2,442	8,037	110,357	(D)	55,052	(D)	-
Value added, adjusted.....do....	347,764	469	931	1,421	6,686	11,955	208,728	(D)	117,574	(D)	-
Value of shipments.....do....	959,364	2,500	1,979	5,435	21,273	34,682	549,543	(D)	343,952	(D)	-
Capital expenditures, new...do....	14,540	22	38	51	100	341	8,155	(D)	5,833	(D)	-
Subindustry 2231-51.—Commission Weaving, Finishing Wool Fabrics—JOBBERS											
Establishments.....number..	120	8	14	20	43	20	13	2	-	-	-
All employees:											
Total.....do....	5,618	13	99	299	1,390	1,328	2,489	(D)	-	-	-
Payroll.....$1,000..	25,460	183	441	1,336	6,581	6,232	10,687	(D)	-	-	-
Value added, adjusted.....do....	38,858	528	959	2,320	10,274	9,083	15,694	(D)	-	-	-
Value of shipments.....do....	51,328	567	1,101	2,935	12,417	12,654	21,654	(D)	-	-	-
Capital expenditures, new...do....	999	13	31	66	198	212	479	(D)	-	-	-
INDUSTRY 2241.—NARROW FABRIC MILLS											
Establishments.....number..	384	58	51	60	79	69	50	13	4	-	-
All employees:											
Total.....do....	23,154	133	348	901	2,617	4,914	7,398	4,002	2,841	-	-
Payroll.....$1,000..	91,869	583	1,321	3,857	10,037	19,578	29,474	16,571	10,448	-	-
Value added, adjusted.....do....	172,493	1,507	2,422	6,426	17,756	38,959	53,531	34,456	17,436	-	-
Value of shipments.....do....	349,071	2,658	5,157	12,621	35,268	77,959	105,967	73,216	36,225	-	-
Capital expenditures, new...do....	6,907	40	86	367	535	1,239	1,835	1,705	1,100	-	-
INDUSTRY 2251.—WOMEN'S HOSIERY, EXCEPT SOCKS											
Establishments.....number..	411	60	38	45	87	65	59	36	15	5	1
All employees:											
Total.....do....	51,527	107	279	632	2,804	4,754	8,655	12,113	10,487	11,696	(D)
Payroll.....$1,000..	170,875	417	954	2,002	9,558	14,988	27,608	40,066	33,518	41,764	(D)
Value added, adjusted.....do....	296,346	686	1,611	2,898	16,287	23,651	47,074	68,117	63,748	72,274	(D)
Value of shipments[1].....do....	606,560	4,293	4,021	6,653	35,809	54,225	107,194	142,849	130,110	121,406	(D)
Capital expenditures, new...do....	16,187	37	104	387	1,351	1,160	2,632	4,394	2,189	3,933	(D)
Subindustry 2251-11.—Women's Hosiery, Except Socks-MANUFACTURERS											
Establishments.....number..	355	52	28	40	80	53	50	32	14	5	1
All employees:											
Total.....do....	46,576	87	205	563	2,586	3,824	7,279	19,809	(D)	11,696	(D)
Payroll.....$1,000..	154,923	312	674	1,784	8,795	12,128	22,503	65,327	(D)	41,764	(D)
Value added, adjusted.....do....	273,170	466	1,104	2,588	15,011	19,911	40,767	117,680	(D)	72,274	(D)
Value of shipments.....do....	545,460	1,060	2,470	5,929	32,905	44,999	82,209	246,982	(D)	121,406	(D)
Capital expenditures, new...do....	14,809	29	78	382	1,143	1,027	2,122	6,080	(D)	3,933	(D)
Subindustry 2251-22.—Women's Hosiery, Except Socks-CONVERTERS											
Establishments.....number..	22	5	4	1	4	2	5	1	-	-	-
All employees:											
Total.....do....	1,261	51	(D)	(D)	281	(D)	929	(D)	-	-	-
Payroll.....$1,000..	5,263	233	(D)	(D)	1,031	(D)	3,999	(D)	-	-	-
Value added, adjusted.....do....	8,998	509	(D)	(D)	1,760	(D)	6,729	(D)	-	-	-
Value of shipments.....do....	40,540	4,709	(D)	(D)	7,332	(D)	28,499	(D)	-	-	-
Capital expenditures, new...do....	830	8	(D)	(D)	217	(D)	605	(D)	-	-	-
Subindustry 2251-33.—Women's Hosiery, Except Socks-CONTRACTORS											
Establishments.....number..	34	3	6	4	3	10	4	3	1	-	-
All employees:											
Total.....do....	3,690	112	(D)	(D)	867	(D)	2,711	(D)	(D)	-	-
Payroll.....$1,000..	10,689	370	(D)	(D)	2,592	(D)	7,727	(D)	(D)	-	-
Value added, adjusted.....do....	14,178	528	(D)	(D)	3,256	(D)	10,394	(D)	(D)	-	-
Value of shipments.....do....	20,560	799	(D)	(D)	4,798	(D)	14,963	(D)	(D)	-	-
Capital expenditures, new...do....	548	31	(D)	(D)	124	(D)	393	(D)	(D)	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2252.—HOSIERY, N.E.C.											
Establishments.....number..	528	64	52	74	118	91	85	35	9	-	-
All employees:											
Total.....do....	43,340	137	369	1,017	3,940	6,361	13,689	12,345	5,482	-	-
Payroll.....$1,000..	124,114	304	957	2,485	9,826	16,795	38,905	37,030	17,812	-	-
Value added, adjusted.....do....	192,165	905	1,627	4,119	16,705	25,560	57,523	59,709	26,017	-	-
Value of shipments.....do....	451,098	1,879	3,714	8,418	39,940	56,590	133,585	131,617	73,355	-	-
Capital expenditures, new...do....	5,203	36	124	166	596	790	2,149	1,892	450	-	-
Subindustry 2252-11.—Hosiery, n.e.c., MANUFACTURERS											
Establishments.....number..	499	59	51	70	110	85	80	35	9	-	-
All employees:											
Total.....do....	41,880	490	(D)	955	3,683	5,927	12,998	12,345	5,482	-	-
Payroll.....$1,000..	120,159	1,231	(D)	2,296	9,209	15,656	36,925	37,030	17,812	-	-
Value added, adjusted.....do....	185,835	2,502	(D)	3,799	15,274	23,955	54,579	59,709	26,017	-	-
Value of shipments.....do....	438,590	5,414	(D)	8,031	36,789	53,415	127,969	131,617	75,355	-	-
Capital expenditures, new...do....	6,026	307	(D)	(D)	572	714	2,091	1,892	450	-	-
Subindustry 2252-22.--Hosiery, n.e.c., CONVERTERS											
Establishments.....number..	9	3	1	-	2	2	1	-	-	-	-
All employees:											
Total.....do....	342	66	(D)	-	(D)	276	(D)	-	-	-	-
Payroll.....$1,000..	888	139	(D)	-	(D)	749	(D)	-	-	-	-
Value added, adjusted.....do....	1,567	583	(D)	-	(D)	984	(D)	-	-	-	-
Value of shipments.....do....	6,596	2,173	(D)	-	(D)	4,423	(D)	-	-	-	-
Capital expenditures, new...do....	83	21	(D)	-	(D)	62	(D)	-	-	-	-
Subindustry 2252-33.22Hosiery, n.e.c., CONTRACTORS											
Establishments.....number..	20	2	-	4	6	4	4	-	-	-	-
All employees:											
Total.....do....	1,118	269	-	(D)	(D)	849	(D)	-	-	-	-
Payroll.....$1,000..	3,067	697	-	(D)	(D)	2,370	(D)	-	-	-	-
Value added, adjusted.....do....	4,763	1,198	-	(D)	(D)	3,565	(D)	-	-	-	-
Value of shipments.....do....	5,912	1,544	-	(D)	(D)	4,368	(D)	-	-	-	-
Capital expenditures, new...do....	94	22	-	(D)	(D)	72	(D)	-	-	-	-
INDUSTRY 2253.--KNIT OUTERWEAR MILLS											
Establishments.....number..	1,185	183	135	201	356	154	100	40	12	4	-
All employees:											
Total.....do....	68,570	371	914	2,885	11,264	10,912	14,735	13,599	8,328	5,562	-
Payroll.....$1,000..	266,650	1,755	4,347	12,156	44,435	43,362	57,261	50,302	30,156	22,876	-
Value added, adjusted.....do....	463,585	7,240	10,287	24,443	76,151	67,948	95,794	89,910	55,142	36,670	-
Value of shipments.....do....	1,045,470	30,739	40,765	74,732	154,705	139,665	212,958	175,299	119,550	97,057	-
Capital expenditures, new...do....	17,277	139	322	714	3,064	3,057	4,097	2,442	2,266	1,176	-
Subindustry 2253-11.--Knit Outerwear Mills-MANUFACTURERS											
Establishments.....number..	684	114	81	97	185	86	75	31	11	4	-
All employees:											
Total.....do....	49,572	224	524	1,350	5,825	6,123	11,394	18,570	(D)	5,562	-
Payroll.....$1,000..	185,212	907	1,959	4,860	21,221	23,965	43,167	66,257	(D)	22,876	-
Value added, adjusted.....do....	309,790	2,122	3,953	7,837	37,714	37,339	69,643	114,512	(D)	36,670	-
Value of shipments.....do....	668,665	4,697	9,381	16,619	72,682	82,528	151,076	234,625	(D)	97,057	-
Capital expenditures, new...do....	12,146	80	142	318	1,583	1,946	3,346	3,555	(D)	1,176	-
Subindustry 2253-22.--Knit Outerwear Mills-CONVERTERS											
Establishments.....number..	146	46	30	30	21	9	7	2	1	-	-
All employees:											
Total.....do....	4,256	101	208	418	693	671	2,165	(D)	(D)	-	-
Payroll.....$1,000..	24,661	647	1,522	3,172	5,211	3,107	11,002	(D)	(D)	-	-
Value added, adjusted.....do....	71,139	4,836	5,101	10,487	12,137	5,767	32,811	(D)	(D)	-	-
Value of shipments.....do....	276,596	25,530	29,690	50,447	50,174	26,640	94,115	(D)	(D)	-	-
Capital expenditures, new...do....	1,454	43	28	112	324	263	684	(D)	(D)	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
Subindustry 2253-33.—Knit Outerwear Mills-CONTRACTORS											
Establishments.....number..	355	23	24	74	150	59	18	7	-	-	-
All employees:											
Total.....do....	14,742	46	182	1,117	4,746	4,118	4,533	(D)	-	-	-
Payroll.....$1,000..	56,777	201	866	4,124	18,003	16,290	17,293	(D)	-	-	-
Value added, adjusted.....do....	82,656	282	1,233	6,119	26,300	24,842	23,280	(D)	-	-	-
Value of shipments.....do....	100,209	512	1,694	7,666	31,849	30,497	27,991	(D)	-	-	-
Capital expenditures, new...do....	3,677	16	152	284	1,157	848	1,220	(D)	-	-	-
INDUSTRY 2254.—KNIT UNDERWEAR MILLS											
Establishments.....number..	118	4	2	8	19	24	32	17	8	3	1
All employees:											
Total.....do....	28,364	17	(D)	113	679	1,756	5,089	5,920	6,095	8,695	(D)
Payroll.....$1,000..	95,869	43	(D)	533	1,781	5,484	15,434	19,831	21,514	31,249	(D)
Value added, adjusted.....do....	170,709	45	(D)	1,719	2,653	7,686	25,416	33,679	44,572	54,939	(D)
Value of shipments.....do....	364,834	86	(D)	6,696	5,970	17,717	59,237	91,560	86,032	97,536	(D)
Capital expenditures, new...do....	4,772	73	(D)	(D)	38	238	664	1,241	692	1,826	(D)
Subindustry 2254-11.—Knit Underwear Mills-MANUFACTURERS											
Establishments.....number..	104	3	-	5	16	22	31	15	8	3	1
All employees:											
Total.....do....	27,221	12,431	-	(D)	(D)	(D)	(D)	(D)	6,095	8,695	(D)
Payroll.....$1,000..	91,493	38,730	-	(D)	(D)	(D)	(D)	(D)	21,514	31,249	(D)
Value added, adjusted.....do....	161,072	61,561	-	(D)	(D)	(D)	(D)	(D)	44,572	54,939	(D)
Value of shipments.....do....	324,403	140,835	-	(D)	(D)	(D)	(D)	(D)	86,032	97,536	(D)
Capital expenditures, new...do....	4,642	2,124	-	(D)	(D)	(D)	(D)	(D)	692	1,826	(D)
INDUSTRY 2256.—KNIT FABRIC MILLS											
Establishments.....number..	518	102	84	89	115	63	47	14	4	-	-
All employees:											
Total.....do....	25,046	191	588	1,220	3,581	4,644	7,483	4,825	2,514	-	-
Payroll.....$1,000..	117,532	1,368	3,424	7,025	18,151	21,664	33,960	20,339	11,601	-	-
Value added, adjusted.....do....	252,908	3,605	8,972	12,867	39,008	51,830	81,146	33,239	22,241	-	-
Value of shipments.....do....	817,383	19,320	32,338	43,197	123,371	180,515	217,487	116,011	85,144	-	-
Capital expenditures, new...do....	18,409	217	344	786	2,438	3,992	5,272	3,415	1,945	-	-
Subindustry 2256-11.—Knit Fabric Mills-MANUFACTURERS											
Establishments.....number..	291	45	42	47	66	41	33	13	4	-	-
All employees:											
Total.....do....	18,743	85	297	660	2,086	3,022	10,079	(D)	2,514	-	-
Payroll.....$1,000..	87,564	533	1,633	4,169	11,208	14,439	43,981	(D)	11,601	-	-
Value added, adjusted.....do....	191,673	935	3,261	8,265	24,031	37,085	95,855	(D)	22,241	-	-
Value of shipments.....do....	671,985	2,865	11,104	31,643	90,860	145,918	304,451	(D)	85,144	-	-
Capital expenditures, new...do....	14,968	50	156	523	1,528	2,772	7,994	(D)	1,945	-	-
Subindustry 2256-22.—Knit Fabric Mills-CONVERTERS											
Establishments.....number..	29	12	7	3	4	2	1	-	-	-	-
All employees:											
Total.....do....	490	29	45	44	96	276	(D)	-	-	-	-
Payroll.....$1,000..	3,140	296	496	359	741	1,248	(D)	-	-	-	-
Value added, adjusted.....do....	11,727	1,577	2,824	774	2,716	3,836	(D)	-	-	-	-
Value of shipments.....do....	76,824	13,984	17,352	6,743	15,794	22,951	(D)	-	-	-	-
Capital expenditures, new...do....	260	50	36	142	(D)	32	(D)	-	-	-	-
Subindustry 2256-33.—Knit Fabric Mills-CONTRACTORS											
Establishments.....number..	198	45	35	39	45	20	13	1	-	-	-
All employees:											
Total.....do....	5,813	77	246	516	1,399	3,575	(D)	(D)	-	-	-
Payroll.....$1,000..	26,828	539	1,295	2,497	6,202	16,295	(D)	(D)	-	-	-
Value added, adjusted.....do....	49,508	1,093	2,887	3,828	12,261	29,439	(D)	(D)	-	-	-
Value of shipments.....do....	68,574	2,471	3,882	4,811	16,717	40,693	(D)	(D)	-	-	-
Capital expenditures, new...do....	3,181	117	152	1,031	(D)	1,881	(D)	(D)	-	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2259.—KNITTING MILLS, N.E.C.											
Establishments.....number..	88	25	7	11	26	9	9	-	1	-	-
All employees:											
Total.....do....	3,639	44	50	136	809	2,600	(D)	-	(D)	-	-
Payroll.....$1,000..	12,458	212	206	440	2,873	8,727	(D)	-	(D)	-	-
Value added, adjusted.....do....	20,309	542	538	1,127	5,115	12,987	(D)	-	(D)	-	-
Value of shipments.....do....	40,731	1,115	968	1,721	12,137	24,790	(D)	-	(D)	-	-
Capital expenditures, new...do....	320	11	8	22	94	185	(D)	-	(D)	-	-
Subindustry 2259-11.—Knitting Mills, n.e.c., MANUFACTURERS											
Establishments.....number..	76	25	6	10	20	6	8	-	1	-	-
All employees:											
Total.....do....	3,121	44	778	(D)	(D)	2,299	(D)	-	(D)	-	-
Payroll.....$1,000..	10,934	212	2,728	(D)	(D)	7,994	(D)	-	(D)	-	-
Value added, adjusted.....do....	17,465	542	4,960	(D)	(D)	11,963	(D)	-	(D)	-	-
Value of shipments.....do....	35,350	1,115	10,591	(D)	(D)	23,644	(D)	-	(D)	-	-
Capital expenditures, new...do....	244	11	79	(D)	(D)	154	(D)	-	(D)	-	-
INDUSTRY 2261.—FINISHING PLANTS, COTTON											
Establishments.....number..	238	51	15	32	37	32	30	15	21	2	3
All employees:											
Total.....do....	42,055	101	107	442	1,238	2,182	5,610	5,648	26,727	(D)	(D)
Payroll.....$1,000..	190,532	439	596	2,134	6,246	10,785	27,260	26,917	116,155	(D)	(D)
Value added, adjusted.....do....	332,290	899	1,429	4,323	10,889	18,089	46,451	64,520	185,690	(D)	(D)
Value of shipments.....do....	869,746	2,754	2,419	10,370	24,566	31,882	132,913	130,961	533,881	(D)	(D)
Capital expenditures, new...do....	29,273	121	106	502	708	1,307	2,557	2,739	21,233	(D)	(D)
Subindustry 2261-11.—Finishing Plants, Cotton—FINISHING OWN FABRICS											
Establishments.....number..	79	27	6	12	14	6	6	3	3	1	1
All employees:											
Total.....do....	9,410	52	43	168	484	373	1,235	7,055	(D)	(D)	(D)
Payroll.....$1,000..	41,468	225	212	641	1,971	1,569	5,631	31,219	(D)	(D)	(D)
Value added, adjusted.....do....	104,915	450	709	1,181	4,400	2,807	13,617	81,751	(D)	(D)	(D)
Value of shipments.....do....	466,257	1,957	1,332	5,205	13,741	8,519	76,045	359,458	(D)	(D)	(D)
Capital expenditures, new...do....	11,194	81	49	214	401	258	890	9,301	(D)	(D)	(D)
Subindustry 2261-51.—Finishing Plants, Cotton—COMMISSION FINISHING											
Establishments.....number..	159	24	9	20	23	26	24	12	18	1	2
All employees:											
Total.....do....	32,645	49	64	274	754	1,809	4,375	25,320	(D)	(D)	(D)
Payroll.....$1,000..	149,064	214	384	1,493	4,275	9,216	21,629	111,853	(D)	(D)	(D)
Value added, adjusted.....do....	227,375	449	720	3,142	6,489	15,282	32,834	168,459	(D)	(D)	(D)
Value of shipments.....do....	403,489	797	1,087	5,165	10,825	23,363	56,868	305,384	(D)	(D)	(D)
Capital expenditures, new...do....	18,079	40	57	288	307	1,049	1,667	14,671	(D)	(D)	(D)
INDUSTRY 2262.—FINISHING PLANTS, SYNTHETICS											
Establishments.....number..	205	24	16	27	45	34	41	10	8	-	-
All employees:											
Total.....do....	19,528	43	107	385	1,494	2,428	6,112	3,468	5,487	-	-
Payroll.....$1,000..	105,975	255	628	1,988	7,721	14,563	35,582	18,739	26,499	-	-
Value added, adjusted.....do....	176,819	463	1,374	3,684	14,361	23,567	56,623	30,214	46,533	-	-
Value of shipments.....do....	323,701	1,197	2,402	5,434	22,902	45,521	95,627	47,284	103,334	-	-
Capital expenditures, new...do....	13,890	29	66	149	702	787	3,174	1,807	7,176	-	-
Subindustry 2262-11.—Finishing Plants, Synthetics—FINISHING OWN FABRICS											
Establishments.....number..	33	14	6	5	4	1	2	-	1	-	-
All employees:											
Total.....do....	1,561	27	38	66	150	1,280	(D)	-	(D)	-	-
Payroll.....$1,000..	7,777	167	223	227	744	6,416	(D)	-	(D)	-	-
Value added, adjusted.....do....	11,047	176	328	368	1,134	9,041	(D)	-	(D)	-	-
Value of shipments.....do....	62,111	825	1,151	1,056	2,922	56,157	(D)	-	(D)	-	-
Capital expenditures, new...do....	1,481	25	28	25	199	1,204	(D)	-	(D)	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
Subindustry 2262-51.—Finishing Plants, Synthetics—COMMISSION FINISHING											
Establishments.....number..	172	10	10	22	41	33	39	10	7	-	-
All employees:											
Total.....do....	17,967	16	69	323	1,344	16,215	(D)	(D)	(D)	-	-
Payroll.....$1,000..	98,198	88	405	1,761	6,977	88,967	(D)	(D)	(D)	-	-
Value added, adjusted.....do....	165,772	287	1,046	3,316	13,227	147,896	(D)	(D)	(D)	-	-
Value of shipments.....do....	261,590	372	1,251	4,378	19,980	235,609	(D)	(D)	(D)	-	-
Capital expenditures, new...do....	12,409	4	38	124	503	11,740	(D)	(D)	(D)	-	-
INDUSTRY 2269.—FINISHING PLANTS, N.E.C.											
Establishments.....number..	178	27	32	34	33	26	17	8	1	-	-
All employees:											
Total.....do....	9,236	50	217	468	1,069	1,823	2,384	3,225	(D)	-	-
Payroll.....$1,000..	40,399	960	1,027	2,327	5,179	7,472	9,650	13,784	(D)	-	-
Value added, adjusted.....do....	73,159	560	2,048	3,856	10,242	14,891	16,021	25,541	(D)	-	-
Value of shipments.....do....	206,920	1,392	5,255	9,599	24,328	33,289	50,035	83,022	(D)	-	-
Capital expenditures, new...do....	4,652	50	146	218	907	861	826	1,644	(D)	-	-
Subindustry 2269-11.—Finishing Plants, N.E.C.—FINISHING OWN YARNS, ETC.											
Establishments.....number..	88	13	14	13	16	16	10	5	1	-	-
All employees:											
Total.....do....	5,718	21	98	181	559	1,116	3,743	(D)	(D)	-	-
Payroll.....$1,000..	24,418	816	412	820	2,826	4,148	15,396	(D)	(D)	-	-
Value added, adjusted.....do....	46,611	279	977	1,334	5,029	10,027	28,965	(D)	(D)	-	-
Value of shipments.....do....	165,223	836	3,196	5,562	16,655	26,421	112,553	(D)	(D)	-	-
Capital expenditures, new...do....	3,060	29	85	159	444	602	1,741	(D)	(D)	-	-
Subindustry 2269-51.—Finishing Plants, N.E.C.—COMMISSION FINISHING											
Establishments.....number..	90	14	18	21	17	10	7	3	-	-	-
All employees:											
Total.....do....	3,518	29	119	287	510	707	1,866	(D)	-	-	-
Payroll.....$1,000..	15,981	144	615	1,507	2,353	3,324	8,038	(D)	-	-	-
Value added, adjusted.....do....	26,548	281	1,071	2,522	5,213	4,864	12,597	(D)	-	-	-
Value of shipments.....do....	41,697	556	2,059	4,037	7,673	6,868	20,504	(D)	-	-	-
Capital expenditures, new...do....	1,592	21	61	59	463	259	729	(D)	-	-	-
INDUSTRY 2269.—FINISHING PLANTS, N.E.C.											
Establishments.....number..	178	27	32	34	33	26	17	8	1	-	-
All employees:											
Total.....do....	9,236	50	217	468	1,069	1,823	2,384	3,225	(D)	-	-
Payroll.....$1,000..	40,399	960	1,027	2,327	5,179	7,472	9,650	13,784	(D)	-	-
Value added, adjusted.....do....	73,159	560	2,048	3,856	10,242	14,891	16,021	25,541	(D)	-	-
Value of shipments.....do....	206,920	1,392	5,255	9,599	24,328	33,289	50,035	83,022	(D)	-	-
Capital expenditures, new...do....	4,652	50	146	218	907	861	826	1,644	(D)	-	-
Subindustry 2269-11.—Finishing Plants, N.E.C.—FINISHING OWN YARNS, ETC.											
Establishments.....number..	88	13	14	13	16	16	10	5	1	-	-
All employees:											
Total.....do....	5,718	21	98	181	559	1,116	3,743	(D)	(D)	-	-
Payroll.....$1,000..	24,418	816	412	820	2,826	4,148	15,396	(D)	(D)	-	-
Value added, adjusted.....do....	46,611	279	977	1,334	5,029	10,027	28,965	(D)	(D)	-	-
Value of shipments.....do....	165,223	836	3,196	5,562	16,655	26,421	112,553	(D)	(D)	-	-
Capital expenditures, new...do....	3,060	29	85	159	444	602	1,741	(D)	(D)	-	-
Subindustry 2269-51.—Finishing Plants, N.E.C.—COMMISSION FINISHING											
Establishments.....number..	90	14	18	21	17	10	7	3	-	-	-
All employees:											
Total.....do....	3,518	29	119	287	510	707	1,866	(D)	-	-	-
Payroll.....$1,000..	15,981	144	615	1,507	2,353	3,324	8,038	(D)	-	-	-
Value added, adjusted.....do....	26,548	281	1,071	2,522	5,213	4,864	12,597	(D)	-	-	-
Value of shipments.....do....	41,697	556	2,059	4,037	7,673	6,868	20,504	(D)	-	-	-
Capital expenditures, new...do....	1,592	21	61	59	463	259	729	(D)	-	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2271.—WOVEN CARPETS AND RUGS											
Establishments.....number..	64	16	10	7	7	3	8	5	4	4	-
All employees:											
Total.....do....	13,357	17	65	92	220	203	1,309	1,782	3,074	6,595	-
Payroll.....$1,000..	63,018	67	227	335	834	974	6,403	7,843	14,835	31,500	-
Value added, adjusted.....do....	120,004	127	310	1,120	1,825	3,024	12,959	18,743	22,628	59,268	-
Value of shipments.....do....	312,473	292	652	2,063	5,268	7,523	27,761	61,642	65,003	142,269	-
Capital expenditures, new...do....	4,151	13	30	63	299	-	802	323	526	2,095	-
INDUSTRY 2272.—TUFTED CARPETS AND RUGS											
Establishments.....number..	181	23	19	18	34	29	35	15	7	1	-
All employees:											
Total.....do....	19,854	37	119	252	1,097	2,111	5,115	5,261	5,862	(D)	-
Payroll.....$1,000..	80,470	183	448	1,057	4,696	8,216	19,616	21,649	24,605	(D)	-
Value added, adjusted.....do....	259,343	430	1,214	2,451	14,982	29,988	50,334	74,430	85,514	(D)	-
Value of shipments.....do....	801,804	1,238	4,065	7,633	50,135	97,864	171,468	221,168	248,233	(D)	-
Capital expenditures, new...do....	11,512	49	83	147	796	792	2,498	4,277	2,870	(D)	-
INDUSTRY 2279.—CARPETS AND RUGS, N.E.C.											
Establishments.....number..	104	41	16	12	20	11	3	1	-	-	-
All employees:											
Total.....do....	2,445	77	106	175	616	762	709	(D)	-	-	-
Payroll.....$1,000..	8,878	206	296	712	2,173	2,814	2,677	(D)	-	-	-
Value added, adjusted.....do....	15,595	363	474	1,150	3,872	4,963	4,773	(D)	-	-	-
Value of shipments.....do....	29,585	887	1,109	1,876	6,972	9,902	8,839	(D)	-	-	-
Capital expenditures, new...do....	462	15	18	19	96	314	(D)	-	-	-	-
INDUSTRY 2281.—YARN MILLS, EXCEPT WOOL											
Establishments.....number..	317	12	10	11	26	45	134	57	20	2	-
All employees:											
Total.....do....	61,647	26	67	167	963	3,378	22,226	19,097	15,723	(D)	-
Payroll.....$1,000..	208,091	90	232	549	2,811	10,910	74,146	64,600	54,753	(D)	-
Value added, adjusted.....do....	363,177	118	214	783	4,239	21,673	134,381	103,934	97,836	(D)	-
Value of shipments.....do....	1,067,043	484	830	2,670	14,199	62,515	397,465	320,567	268,313	(D)	-
Capital expenditures, new...do....	34,706	15	21	45	408	1,960	12,205	13,564	6,488	(D)	-
INDUSTRY 2282.—THROWING AND WINDING MILLS											
Establishments.....number..	180	27	21	22	37	32	27	11	3	-	-
All employees:											
Total.....do....	13,559	64	139	311	1,234	2,265	3,933	3,958	1,655	-	-
Payroll.....$1,000..	47,066	286	568	1,133	4,287	7,264	13,254	13,305	6,969	-	-
Value added, adjusted.....do....	93,649	782	452	2,060	9,794	12,767	24,571	30,003	13,220	-	-
Value of shipments.....do....	319,252	1,439	1,997	4,910	18,347	36,899	95,933	126,500	33,227	-	-
Capital expenditures, new...do....	6,231	33	33	135	468	392	1,775	3,395	(D)	-	-
Subindustries 2282-11.—Throwing and Winding Mills—MANUFACTURERS											
Establishments.....number..	112	16	13	13	21	17	21	9	2	-	-
All employees:											
Total.....do....	9,518	45	83	175	670	1,154	3,134	4,257	(D)	-	-
Payroll.....$1,000..	34,093	170	379	583	2,534	4,001	10,666	15,760	(D)	-	-
Value added, adjusted.....do....	73,720	364	279	1,255	7,101	8,296	21,589	34,836	(D)	-	-
Value of shipments.....do....	293,447	829	1,701	3,471	15,381	31,706	91,399	148,960	(D)	-	-
Capital expenditures, new...do....	4,165	19	23	98	178	337	3,510	(D)	(D)	-	-
Subindustries 2282-51.—Throwing and Winding Mills—COMMISSION MILLS											
Establishments.....number..	68	11	8	9	16	15	6	2	1	-	-
All employees:											
Total.....do....	4,041	19	56	136	564	1,111	799	1,356	(D)	-	-
Payroll.....$1,000..	12,973	116	189	550	1,753	3,263	2,588	4,514	(D)	-	-
Value added, adjusted.....do....	19,929	418	173	805	2,693	4,471	2,982	8,387	(D)	-	-
Value of shipments.....do....	25,805	610	296	1,439	2,966	5,193	4,534	10,767	(D)	-	-
Capital expenditures, new...do....	2,066	14	10	37	290	55	1,660	(D)	(D)	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2283.—WOOL YARN MILLS											
Establishments.....number..	144	10	5	8	37	28	37	13	6	-	-
All employees:											
Total.....do....	17,385	24	33	120	1,192	1,966	5,461	4,197	4,392	-	-
Payroll.....$1,000..	66,526	111	126	514	4,365	7,755	21,064	15,824	16,767	-	-
Value added, adjusted.....do....	119,718	159	209	755	6,561	11,785	37,204	32,876	30,169	-	-
Value of shipments.....do....	422,189	726	927	2,195	15,929	32,116	122,494	124,282	123,520	-	-
Capital expenditures, new...do....	7,256	12	11	24	357	377	3,001	1,924	1,550	-	-
INDUSTRY 2284.—THREAD MILLS											
Establishments.....number..	71	16	9	10	7	8	6	10	3	2	-
All employees:											
Total.....do....	10,056	32	67	140	253	551	1,212	3,403	4,398	(D)	-
Payroll.....$1,000..	37,438	168	302	544	1,106	2,132	4,556	12,570	16,060	(D)	-
Value added, adjusted.....do....	75,821	602	599	1,093	1,665	4,542	8,404	23,749	35,167	(D)	-
Value of shipments.....do....	194,068	1,589	1,709	3,266	6,122	8,732	19,302	58,514	94,834	(D)	-
Capital expenditures, new...do....	3,311	11	29	12	5	382	518	761	1,593	(D)	-
INDUSTRY 2291.—FELT GOODS, N.E.C.											
Establishments.....number..	36	2	-	4	8	3	13	6	-	-	-
All employees:											
Total.....do....	4,952	56	-	(D)	302	228	2,298	2,068	-	-	-
Payroll.....$1,000..	27,011	316	-	(D)	1,658	1,247	13,325	10,465	-	-	-
Value added, adjusted.....do....	58,625	352	-	(D)	4,038	2,932	31,413	19,890	-	-	-
Value of shipments.....do....	133,998	1,114	-	(D)	8,578	5,660	76,076	42,570	-	-	-
Capital expenditures, new...do....	1,791	39	-	(D)	231	280	673	568	-	-	-
INDUSTRY 2292.—LACE GOODS											
Establishments.....number..	152	50	27	24	26	13	8	4	-	-	-
All employees:											
Total.....do....	4,912	119	197	318	775	918	1,418	1,167	-	-	-
Payroll.....$1,000..	19,749	423	816	1,584	2,926	3,964	5,600	4,436	-	-	-
Value added, adjusted.....do....	31,472	911	1,244	2,095	4,470	6,676	9,723	6,353	-	-	-
Value of shipments.....do....	53,046	1,776	2,316	4,147	8,243	11,148	15,011	10,405	-	-	-
Capital expenditures, new...do....	538	81	39	57	109	145	30	77	-	-	-
INDUSTRY 2293.—PADDING AND UPHOLSTERY FILLING											
Establishments.....number..	183	38	35	37	42	16	10	4	1	-	-
All employees:											
Total.....do....	6,932	84	247	518	1,310	1,158	1,634	1,981	(D)	-	-
Payroll.....$1,000..	33,651	417	1,126	2,580	6,790	5,892	6,809	10,037	(D)	-	
Value added, adjusted.....do....	65,588	957	2,437	5,102	13,033	12,471	12,038	19,550	(D)	-	-
Value of shipments.....do....	156,539	2,418	6,307	12,821	35,057	30,146	29,188	40,602	(D)	-	-
Capital expenditures, new...do....	1,934	34	69	159	244	425	217	786	(D)	-	-
INDUSTRY 2294.—PROCESSED TEXTILE WASTE											
Establishments.....number..	141	23	21	38	37	14	7	1	-	-	-
All employees:											
Total.....do....	4,240	39	139	531	1,159	957	1,415	(D)	-	-	-
Payroll.....$1,000..	17,845	163	592	2,125	5,007	4,138	5,820	(D)	-	-	-
Value added, adjusted.....do....	30,961	576	1,358	4,621	8,210	6,666	9,530	(D)	-	-	-
Value of shipments.....do....	87,482	1,271	2,464	8,859	20,414	18,150	36,324	(D)	-	-	-
Capital expenditures, new...do....	1,215	16	21	87	349	467	275	(D)	-	-	-
INDUSTRY 2295.—COATED FABRIC, NOT RUBBERIZED											
Establishments.....number..	162	23	26	26	40	19	14	7	6	1	-
All employees:											
Total.....do....	13,705	59	182	376	1,286	1,393	2,205	2,378	5,826	(D)	-
Payroll.....$1,000..	89,235	340	1,015	2,159	6,980	8,672	15,147	14,816	40,106	(D)	-
Value added, adjusted.....do....	179,307	606	2,087	3,938	14,940	17,574	27,546	34,530	78,086	(D)	-
Value of shipments.....do....	435,743	1,714	5,306	10,528	37,016	39,664	72,575	89,035	179,905	(D)	-
Capital expenditures, new...do....	12,396	42	186	295	760	922	1,235	3,278	5,678	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2296.—TIRE CORD AND FABRIC											
Establishments.....number..	20	1	-	-	-	-	9	4	3	3	-
All employees:											
Total.....do....	9,163	1,571	-	-	-	-	(D)	3,485	(D)	4,107	-
Payroll.....$1,000..	35,139	6,071	-	-	-	-	(D)	12,858	(D)	16,210	-
Value added, adjusted.....do....	72,267	16,592	-	-	-	-	(D)	21,233	(D)	34,442	-
Value of shipments.....do....	375,689	89,285	-	-	-	-	(D)	122,262	(D)	164,142	-
Capital expenditures, new...do....	3,010	300	-	-	-	-	(D)	246	(D)	2,464	-
INDUSTRY 2297.—SCOURING AND COMBING PLANTS											
Establishments.....number..	69	12	8	11	16	7	7	5	3	-	-
All employees:											
Total.....do....	5,798	16	46	150	529	513	902	2,044	1,598	-	-
Payroll.....$1,000..	24,749	115	188	636	2,336	2,257	3,758	9,025	6,434	-	-
Value added, adjusted.....do....	45,402	181	444	1,274	4,657	3,337	5,415	19,467	10,627	-	-
Value of shipments.....do....	119,918	412	589	3,483	20,195	4,323	8,775	69,261	12,880	-	-
Capital expenditures, new...do....	3,335	9	9	20	150	71	511	1,678	887	-	-
INDUSTRY 2298.—CORDAGE AND TWINE											
Establishments.....number..	167	49	22	20	32	19	18	4	3	-	-
All employees:											
Total.....do....	8,920	81	159	265	930	1,299	2,793	1,113	2,280	-	-
Payroll.....$1,000..	34,524	334	574	1,136	3,467	5,442	9,476	4,719	9,376	-	-
Value added, adjusted.....do....	57,614	974	1,033	2,436	6,505	10,220	15,580	6,859	14,007	-	-
Value of shipments.....do....	149,331	1,940	2,356	5,982	15,063	25,197	42,461	19,212	37,120	-	-
Capital expenditures, new...do....	2,689	19	20	122	665	305	462	246	850	-	-
INDUSTRY 2299.—TEXTILE GOODS, N.E.C.											
Establishments.....number..	137	43	20	18	26	8	12	9	1	-	-
All employees:											
Total.....do....	7,283	72	136	245	757	523	1,776	3,774	(D)	-	-
Payroll.....$1,000..	34,858	373	530	1,163	3,324	2,556	8,090	18,822	(D)	-	-
Value added, adjusted.....do....	78,746	950	1,173	2,366	7,357	6,426	23,179	37,295	(D)	-	-
Value of shipments.....do....	169,770	2,210	3,134	5,995	19,368	16,544	45,074	77,445	(D)	-	-
Capital expenditures, new...do....	5,284	66	53	155	406	203	1,501	2,900	(D)	-	-
INDUSTRY 2311.—MEN'S AND BOYS' SUITS AND COATS											
Establishments.....number..	1,112	203	123	151	172	176	163	73	32	18	1
All employees:											
Total.....do....	122,679	382	833	2,154	5,660	12,561	24,726	25,152	20,691	30,520	(D)
Payroll.....$1,000..	494,240	1,977	4,186	10,706	23,443	49,731	94,988	97,398	80,727	131,084	(D)
Value added, adjusted.....do....	831,910	6,287	13,842	23,152	42,136	81,096	147,039	153,349	122,530	242,479	(D)
Value of shipments.....do....	1,526,019	16,577	40,235	72,978	111,444	163,907	244,931	260,900	232,518	382,529	(D)
Capital expenditures, new...do....	6,856	45	91	170	360	727	1,259	1,251	1,256	1,697	(D)
Subindustry 2311-11.—Men's and Boys' Suits and Coats—MANUFACTURERS											
Establishments.....number..	444	105	46	58	55	59	55	34	17	14	1
All employees:											
Total.....do....	61,864	187	319	838	1,800	4,122	8,265	11,596	10,875	23,862	(D)
Payroll.....$1,000..	255,305	929	1,255	3,350	7,384	16,355	32,926	47,423	43,102	102,581	(D)
Value added, adjusted.....do....	474,389	3,020	3,995	7,742	11,454	25,681	62,130	82,637	74,241	203,489	(D)
Value of shipments.....do....	772,997	5,530	7,136	15,182	23,383	49,206	99,181	131,646	122,112	319,621	(D)
Capital expenditures, new...do....	3,581	28	53	94	131	264	559	459	705	1,288	(D)
Subindustry 2311-22.—Men's and Boys' Suits and Coats—JOBBERS											
Establishments.....number..	236	61	48	51	38	18	11	5	3	1	-
All employees:											
Total.....do....	11,246	128	315	717	1,130	1,323	1,632	1,880	4,121	(D)	-
Payroll.....$1,000..	63,345	681	2,085	5,248	7,382	8,428	8,669	8,906	21,946	(D)	-
Value added, adjusted.....do....	141,900	2,653	8,620	12,459	18,600	22,810	20,834	21,509	34,415	(D)	-
Value of shipments.....do....	513,591	10,085	31,537	54,416	74,845	80,053	75,968	73,616	113,071	(D)	-
Capital expenditures, new...do....	973	10	29	51	130	116	196	114	327	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
Subindustry 2311-33.—Men's and Boys' Suits and Coats—INDEPENDENT CONTRACTORS											
Establishments.....number..	353	37	29	41	75	88	72	8	2	1	-
All employees:											
Total.....do....	25,647	67	199	3,188	(D)	6,297	11,008	2,581	2,307	(D)	-
Payroll.....$1,000..	89,892	367	846	10,373	(D)	22,313	38,845	9,360	7,788	(D)	-
Value added, adjusted.....do....	114,407	614	1,227	14,548	(D)	29,220	47,060	12,355	9,385	(D)	-
Value of shipments.....do....	128,935	962	1,562	16,094	(D)	31,083	51,565	16,191	11,478	(D)	-
Capital expenditures, new...do....	1,281	7	9	120	(D)	305	422	149	269	(D)	-
Subindustry 2311-44.—Men's and Boys' Suits and Coats—MULTIPLANT COMPANY CONTRACTORS											
Establishments.....number..	79	-	-	1	4	11	25	26	10	2	-
All employees:											
Total.....do....	23,922	-	-	141	(D)	819	3,821	9,095	10,046	(D)	-
Payroll.....$1,000..	85,698	-	-	412	(D)	2,635	14,548	31,709	36,394	(D)	-
Value added, adjusted.....do....	101,214	-	-	485	(D)	3,385	17,015	36,848	43,481	(D)	-
Value of shipments.....do....	110,496	-	-	502	(D)	3,565	18,217	39,447	48,765	(D)	-
Capital expenditures, new...do....	1,021	-	-	4	(D)	42	82	529	364	(D)	-
INDUSTRY 2321.— MEN'S DRESS SHIRTS AND NIGHTWEAR											
Establishments.....number..	832	128	73	67	120	104	188	111	37	4	-
All employees:											
Total.....do....	112,926	259	485	963	3,920	7,502	30,878	37,803	31,129	(D)	-
Payroll.....$1,000..	316,331	1,530	3,038	4,153	14,065	23,855	84,905	103,332	91,447	(D)	-
Value added, adjusted.....do....	599,423	4,173	8,803	12,039	31,406	36,748	125,751	179,361	201,142	(D)	-
Value of shipments.....do....	1,295,079	29,760	45,281	58,015	102,039	80,175	221,360	348,403	410,046	(D)	-
Capital expenditures, new...do....	8,770	1132	122	85	516	626	1,864	3,132	2,293	(D)	-
Subindustry 2321-11.—Men's Dress Shirts and Nightwear—MANUFACTURERS											
Establishments.....number..	392	74	33	30	56	48	76	51	21	3	-
All employees:											
Total.....do....	55,131	137	218	438	1,770	3,440	12,546	17,517	19,078	(D)	-
Payroll.....$1,000..	161,223	616	822	1,524	5,149	10,479	35,546	48,606	58,425	(D)	-
Value added, adjusted.....do....	354,882	1,189	1,477	2,893	7,392	16,331	61,819	102,317	161,464	(D)	-
Value of shipments.....do....	744,325	2,400	2,731	6,773	15,329	34,983	126,652	209,208	346,249	(D)	-
Capital expenditures, new...do....	4,656	4	23	38	166	414	718	1,440	1,853	(D)	-
Subindustry 2321-22.—Men's Dress Shirts and Nightwear—JOBBERS											
Establishments.....number..	134	48	38	18	21	5	2	1	1	-	-
All employees:											
Total.....do....	2,731	365	(D)	251	609	319	1,187	(D)	(D)	-	-
Payroll.....$1,000..	20,479	3,038	(D)	1,757	4,466	2,966	8,252	(D)	(D)	-	-
Value added, adjusted.....do....	66,105	10,175	(D)	7,984	17,982	7,572	22,392	(D)	(D)	-	-
Value of shipments.....do....	352,199	69,757	(D)	49,786	79,982	31,244	121,430	(D)	(D)	-	-
Capital expenditures, new...do....	476	148	(D)	36	136	156	(D)	(D)	(D)	-	-
Subindustry 2321-33.—Men's Dress Shirts and Nightwear—CONTRACTORS											
Establishments.....number..	306	6	2	19	43	51	110	59	15	1	-
All employees:											
Total.....do....	55,064	24	(D)	274	1,541	3,743	49,482	(D)	(D)	(D)	-
Payroll.....$1,000..	144,629	92	(D)	872	4,450	10,410	128,805	(D)	(D)	(D)	-
Value added, adjusted.....do....	178,436	135	(D)	1,162	6,032	12,845	158,262	(D)	(D)	(D)	-
Value of shipments.....do....	198 555	153	(D)	1,456	6,728	13,948	176,270	(D)	(D)	(D)	-
Capital expenditures, new...do....	3,638	1279	(D)	11	214	3,336	(D)	(D)	(D)	(D)	-
INDUSTRY 2322.—MEN'S AND BOYS' UNDERWEAR											
Establishments.....number..	80	7	4	6	11	12	23	15	2	-	-
All employees:											
Total.....do....	12,084	14	28	89	359	931	3,679	6,984	(D)	-	-
Payroll.....$1,000..	32,566	59	111	293	1,094	2,411	10,083	18,515	(D)	-	-
Value added, adjusted.....do....	63,186	115	196	274	2,237	3,869	21,474	35,021	(D)	-	-
Value of shipments.....do....	134,949	242	496	713	3,764	7,428	46,945	75,361	(D)	-	-
Capital expenditures, new...do....	1,087	9	(D)	(D)	35	60	516	467	(D)	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
Subindustries 2322-11 and -22.—Men's and Boys' Underwear—MANUFACTURERS—JOBBERS[13]											
Establishments.....number..	61	7	4	3	6	7	19	13	2	-	-
All employees:											
Total.....do....	10,175	14	28	53	191	558	9,331	(D)	(D)	-	-
Payroll.....$1,000..	27,720	59	111	190	677	1,404	25,279	(D)	(D)	-	-
Value added, adjusted.....do....	56,532	115	196	162	1,097	2,604	52,358	(D)	(D)	-	-
Value of shipments.....do....	127,468	242	496	591	2,476	6,135	117,528	(D)	(D)	-	-
Capital expenditures, new...do....	1,021	35	(D)	(D)	(D)	33	953	(D)	(D)	-	-
Subindustries 2322-33.—Men's and Boys' Underwear—CONTRACTORS											
Establishments.....number..	19	-	-	3	5	5	4	2	-	-	-
All employees:											
Total.....do....	1,909	-	-	36	168	373	1,332	(D)	-	-	-
Payroll.....$1,000..	4,846	-	-	103	417	1,007	3,319	(D)	-	-	-
Value added, adjusted.....do....	6,654	-	-	112	1,140	1,265	4,137	(D)	-	-	-
Value of shipments.....do....	7,481	-	-	122	1,288	1,293	4,778	(D)	-	-	-
Capital expenditures, new...do....	66	-	-	9	(D)	27	30	(D)	-	-	-
INDUSTRY 2323.—MEN'S AND BOYS' NECKWEAR											
Establishments.....number..	341	109	58	57	71	31	12	3	-	-	-
All employees:											
Total.....do....	8,385	198	393	817	2,098	2,065	2,814	(D)	-	-	-
Payroll.....$1,000..	30,875	575	1,383	2,861	8,009	7,798	10,249	(D)	-	-	-
Value added, adjusted.....do....	58,136	1,446	2,805	5,509	14,290	14,162	19,929	(D)	-	-	-
Value of shipments.....do....	121,313	3,573	6,233	11,720	29,787	28,560	41,440	(D)	-	-	-
Capital expenditures, new...do....	504	8	26	46	99	87	238	(D)	-	-	-
Subindustry 2323-11.—Men's and Boys' Neckwear—MANUFACTURERS											
Establishments.....number..	292	95	48	49	61	28	10	1	-	-	-
All employees:											
Total.....do....	6,873	174	322	714	3,676	(D)	1,987	(D)	-	-	-
Payroll.....$1,000..	26,001	483	1,063	2,471	14,171	(D)	7,813	(D)	-	-	-
Value added, adjusted.....do....	48,912	1,024	1,977	4,643	25,293	(D)	15,975	(D)	-	-	-
Value of shipments.....do....	102,927	2,323	4,300	9,459	51,945	(D)	34,900	(D)	-	-	-
Capital expenditures, new...do....	437	8	67	(D)	173	(D)	189	(D)	-	-	-
Subindustry 2323-22.—Men's and Boys' Neckwear—JOBBERS											
Establishments.....number..	21	9	4	3	4	-	-	1	-	-	-
All employees:											
Total.....do....	452	16	27	44	365	-	-	(D)	-	-	-
Payroll.....$1,000..	1,983	72	135	197	1,579	-	-	(D)	-	-	-
Value added, adjusted.....do....	5,470	382	597	595	3,896	-	-	(D)	-	-	-
Value of shipments.....do....	13,889	1,203	1,635	1,941	9,110	-	-	(D)	-	-	-
Capital expenditures, new...do....	16	16	-	(D)	(D)	-	-	(D)	-	-	-
Subindustry 2323-33.—Men's and Boys' Neckwear—CONTRACTORS											
Establishments.....number..	28	5	6	5	6	3	2	1	-	-	-
All employees:											
Total.....do....	1,060	8	44	59	949	(D)	(D)	(D)	-	-	-
Payroll.....$1,000..	2,891	20	185	193	2,493	(D)	(D)	(D)	-	-	-
Value added, adjusted.....do....	3,754	40	231	271	3,212	(D)	(D)	(D)	-	-	-
Value of shipments.....do....	4,497	47	298	320	3,832	(D)	(D)	(D)	-	-	-
Capital expenditures, new...do....	51	3	(D)	(D)	48	(D)	(D)	(D)	-	-	-
INDUSTRY 2327.—SEPARATE TROUSERS											
Establishments.....number..	735	143	86	83	99	90	141	77	14	2	-
All employees:											
Total.....do....	73,848	278	596	1,140	3,202	6,613	23,346	26,259	12,414	(D)	-
Payroll.....$1,000..	224,371	1,296	2,722	5,122	12,071	21,156	69,759	75,225	37,020	(D)	-
Value added, adjusted.....do....	383,134	3,053	6,764	14,752	22,921	29,668	116,791	108,994	80,191	(D)	-
Value of shipments.....do....	824,224	11,518	28,181	59,798	78,547	72,741	216,803	190,458	166,178	(D)	-
Capital expenditures, new...do....	6,215	[12]86	64	125	254	337	1,689	1,541	2,119	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
Subindustry 2327-11.—Separate Trousers—MANUFACTURERS											
Establishments.....number..	294	73	36	25	43	29	43	31	12	2	-
All employees:											
Total.....do....	33,662	141	255	361	1,428	2,046	7,435	21,996	(D)	(D)	-
Payroll.....$1,000..	101,296	545	832	1,113	5,266	5,792	23,517	64,231	(D)	(D)	-
Value added, adjusted.....do....	191,898	1,090	1,593	2,508	9,413	7,025	42,129	128,140	(D)	(D)	-
Value of shipments.....do....	404,888	2,805	3,368	5,356	24,531	14,479	86,630	267,719	(D)	(D)	-
Capital expenditures, new...do....	3,773	1278	28	47	134	109	621	2,756	(D)	(D)	-
Subindustry 2327-22.—Separate Trousers—JOBBERS											
Establishments.....number..	144	45	33	32	16	11	4	3	-	-	-
All employees:											
Total.....do....	3,446	86	233	419	455	784	519	950	-	-	-
Payroll.....$1,000..	18,142	574	1,592	2,953	2,875	3,832	2,323	3,993	-	-	-
Value added, adjusted.....do....	52,889	1,671	4,722	10,798	8,643	8,505	11,342	7,208	-	-	-
Value of shipments.....do....	258,733	8,317	24,280	52,616	48,313	42,035	57,036	26,136	-	-	-
Capital expenditures, new...do....	345	38	(D)	62	73	89	42	41	-	-	-
Subindustry 2327-33.—Separate Trousers—INDEPENDENT CONTRACTORS											
Establishments.....number..	226	25	17	25	36	41	63	18	1	-	-
All employees:											
Total.....do....	21,966	51	108	1,524	(D)	3,111	10,126	7,046	(D)	-	-
Payroll.....$1,000..	63,065	177	298	4,546	(D)	9,649	28,441	19,954	(D)	-	-
Value added, adjusted.....do....	79,811	292	449	5,647	(D)	11,876	36,521	25,026	(D)	-	-
Value of shipments.....do....	94,667	396	533	6,841	(D)	13,691	43,510	29,696	(D)	-	-
Capital expenditures, new...do....	1,367	6	(D)	180	(D)	(D)	778	403	(D)	-	-
Subindustry 2327-44.—Separate Trousers—MULTIPLANT COMPANY CONTRACTORS											
Establishments.....number..	71	-	-	1	4	9	31	25	1	-	-
All employees:											
Total.....do....	14,774	-	-	155	(D)	672	5,266	8,681	(D)	-	-
Payroll.....$1,000..	41,868	-	-	440	(D)	1,883	15,478	24,067	(D)	-	-
Value added, adjusted.....do....	58,536	-	-	664	(D)	2,262	26,799	28,811	(D)	-	-
Value of shipments.....do....	65,936	-	-	688	(D)	2,536	29,627	33,085	(D)	-	-
Capital expenditures, new...do....	730	-	-	22	(D)	(D)	248	460	(D)	-	-
INDUSTRY 2328.—WORK CLOTHING											
Establishments.....number..	439	32	22	32	68	74	127	69	14	1	-
All employees:											
Total.....do....	62,477	66	144	446	2,198	5,549	20,060	24,240	9,774	(D)	-
Payroll.....$1,000..	179,612	268	432	1,625	6,761	16,118	56,499	69,639	28,270	(D)	-
Value added, adjusted.....do....	330,653	396	1,406	4,306	13,306	36,126	96,742	123,928	54,443	(D)	-
Value of shipments.....do....	824,710	1,051	5,482	17,071	38,848	93,936	225,352	285,926	157,044	(D)	-
Capital expenditures, new...do....	5,839	5	11	24	319	300	1,981	2,444	755	(D)	-
Subindustry 2328-11.—Work Clothing—MANUFACTURERS											
Establishments.....number..	266	24	17	26	51	33	57	45	12	1	-
All employees:											
Total.....do....	37,720	50	112	373	1,642	2,373	8,959	24,211	(D)	(D)	-
Payroll.....$1,000..	109,318	183	286	1,210	4,744	6,844	26,006	70,045	(D)	(D)	-
Value added, adjusted.....do....	196,411	223	534	2,725	7,563	11,813	45,324	128,232	(D)	(D)	-
Value of shipments.....do....	474,228	766	1,300	6,515	17,944	32,401	109,860	305,442	(D)	(D)	-
Capital expenditures, new...do....	3,721	4	7	19	225	200	588	2,678	(D)	(D)	-
Subindustry 2328-22.—Work Clothing—JOBBERS											
Establishments.....number..	36	3	3	4	5	5	10	5	1	-	-
All employees:											
Total.....do....	4,688	67	(D)	(D)	573	(D)	1,542	2,506	(D)	-	-
Payroll.....$1,000..	17,591	492	(D)	(D)	3,268	(D)	5,869	7,962	(D)	-	-
Value added, adjusted.....do....	65,066	2,371	(D)	(D)	20,457	(D)	20,268	21,970	(D)	-	-
Value of shipments.....do....	271,781	14,716	(D)	(D)	72,110	(D)	79,587	105,368	(D)	-	-
Capital expenditures, new...do....	1,293	7	(D)	(D)	106	(D)	1,048	132	(D)	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
Subindustry 2328-33.—Work Clothing—INDEPENDENT CONTRACTORS											
Establishments.....number..	50	4	2	2	9	11	19	3	-	-	-
All employees:											
Total.....do....	5,089	329	(D)	(D)	(D)	777	2,753	1,230	-	-	-
Payroll.....$1,000..	13,653	868	(D)	(D)	(D)	2,020	7,257	3,508	-	-	-
Value added, adjusted.....do....	16,730	1,163	(D)	(D)	(D)	2,616	9,066	3,885	-	-	-
Value of shipments.....do....	18,515	1,306	(D)	(D)	(D)	2,940	10,263	4,006	-	-	-
Capital expenditures, new...do....	158	15	(D)	(D)	(D)	17	113	13	-	-	-
Subindustry 2328-44.—Work Clothing—MULTIPLANT COMPANY CONTRACTORS											
Establishments.....number..	87	1	-	-	3	25	41	16	1	-	-
All employees:											
Total.....do....	14,980	2,107	-	-	(D)	(D)	6,806	6,067	(D)	-	-
Payroll.....$1,000..	39,050	5,289	-	-	(D)	(D)	17,367	16,394	(D)	-	-
Value added, adjusted.....do....	52,443	6,075	-	-	(D)	(D)	22,084	24,284	(D)	-	-
Value of shipments.....do....	60,186	6,390	-	-	(D)	(D)	25,642	28,154	(D)	-	-
Capital expenditures, new...do....	667	59	-	-	(D)	(D)	232	376	(D)	-	-
INDUSTRY 2329.—MEN'S AND BOYS' CLOTHING, N.E.C.											
Establishments.....number..	554	87	45	57	135	117	96	15	1	1	-
All employees:											
Total.....do....	35,917	140	307	778	4,482	8,435	14,953	6,822	(D)	(D)	-
Payroll.....$1,000..	115,722	676	1,528	3,482	15,136	26,548	47,753	20,599	(D)	(D)	-
Value added, adjusted.....do....	183,224	3,291	2,736	9,178	23,637	41,674	73,211	29,497	(D)	(D)	-
Value of shipments.....do....	397,551	9,021	15,219	30,368	56,370	81,298	134,504	70,771	(D)	(D)	-
Capital expenditures, new...do....	2,827	97	(D)	108	306	454	1,465	397	(D)	(D)	-
Subindustry 2329-11.—Men's and Boys' Clothing, N.E.C.—MANUFACTURERS											
Establishments.....number..	317	56	27	36	74	58	53	11	1	1	-
All employees:											
Total.....do....	21,412	96	175	521	2,369	4,242	8,439	5,570	(D)	(D)	-
Payroll.....$1,000..	70,016	374	680	1,908	7,860	14,559	27,546	17,089	(D)	(D)	-
Value added, adjusted.....do....	113,454	605	1,110	4,464	11,380	24,792	46,658	24,445	(D)	(D)	-
Value of shipments.....do....	256,485	1,436	3,138	9,750	24,637	52,408	99,563	65,553	(D)	(D)	-
Capital expenditures, new...do....	1,645	98	(D)	(D)	163	234	902	248	(D)	(D)	-
Subindustry 2329-22.—Men's and Boys' Clothing, N.E.C.—JOBBERS											
Establishments.....number..	66	27	14	10	9	3	3	-	-	-	-
All employees:											
Total.....do....	1,327	38	104	113	303	769	(D)	-	-	-	-
Payroll.....$1,000..	7,198	287	773	1,096	1,615	3,427	(D)	-	-	-	-
Value added, adjusted.....do....	18,264	2,657	1,550	4,004	4,776	5,277	(D)	-	-	-	-
Value of shipments.....do....	86,240	7,553	11,995	19,849	23,860	22,983	(D)	-	-	-	-
Capital expenditures, new...do....	246	41	(D)	59	9	137	(D)	-	-	-	-
Subindustry 2329-33.—Men's and Boys Clothing, N.E.C.—INDEPENDENT CONTRACTORS											
Establishments.....number..	144	3	4	9	49	46	32	1	-	-	-
All employees:											
Total.....do....	10,192	154	(D)	(D)	4,867	(D)	5,171	(D)	-	-	-
Payroll.....$1,000..	30,330	468	(D)	(D)	13,723	(D)	16,139	(D)	-	-	-
Value added, adjusted.....do....	38,746	625	(D)	(D)	17,991	(D)	20,130	(D)	-	-	-
Value of shipments.....do....	41,438	690	(D)	(D)	19,259	(D)	21,489	(D)	-	-	-
Capital expenditures, new...do....	682	7	(D)	(D)	268	(D)	407	(D)	-	-	-
Subindustry 2329-44.—Men's and Boys' Clothing, N.E.C.—MULTIPLANT COMPANY CONTRACTORS											
Establishments.....number..	27	1	-	2	3	10	8	3	-	-	-
All employees:											
Total.....do....	2,986	24	-	(D)	(D)	(D)	2,962	(D)	-	-	-
Payroll.....$1,000..	8,178	100	-	(D)	(D)	(D)	8,078	(D)	-	-	-
Value added, adjusted.....do....	12,760	190	-	(D)	(D)	(D)	12,570	(D)	-	-	-
Value of shipments.....do....	13,388	197	-	(D)	(D)	(D)	13,191	(D)	-	-	-
Capital expenditures, new...do....	254	254	-	(D)	(D)	(D)	254	(D)	-	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
	INDUSTRY 2331.—BLOUSES[14]										
Establishments.....number..	1,175	133	105	219	390	192	110	21	3	2	-
All employees:											
Total.....do....	57,595	284	726	3,121	12,477	13,366	16,099	7,366	4,156	(D)	-
Payroll.....$1,000..	177,929	1,210	3,290	12,263	40,277	40,395	46,377	22,651	11,466	(D)	-
Value added, adjusted.....do....	300,525	3,015	9,713	28,091	71,949	68,901	65,294	39,129	14,433	(D)	-
Value of shipments.....do....	610,185	7,928	33,990	90,353	166,310	120,891	86,617	75,984	28,112	(D)	-
Capital expenditures, new...do....	4,418	15	85	214	809	863	1,181	591	660	(D)	-
	Subindustry 2331-11.—Blouses[14]—MANUFACTURES										
Establishments.....number..	171	38	20	21	43	21	21	4	2	1	-
All employees:											
Total.....do....	10,188	71	137	295	1,307	1,514	3,119	3,745	(D)	(D)	-
Payroll.....$1,000..	31,674	297	538	1,243	4,500	4,855	9,822	10,419	(D)	(D)	-
Value added, adjusted.....do....	53,818	641	1,811	2,536	7,549	8,107	17,017	16,157	(D)	(D)	-
Value of shipments.....do....	110,865	1,237	3,175	5,462	14,651	16,964	34,819	34,557	(D)	(D)	-
Capital expenditures, new...do....	1,033	7	24	21	92	161	339	389	(D)	(D)	-
	Subindustry 2331-22.—Blouses[14]—JOBBERS										
Establishments.....number..	157	24	33	49	38	10	-	3	-	-	-
All employees:											
Total.....do....	4,051	49	227	644	1,186	730	-	1,215	-	-	-
Payroll.....$1,000..	25,693	323	1,698	4,898	8,939	4,511	-	5,324	-	-	-
Value added, adjusted.....do....	78,199	1,224	5,833	15,501	21,878	19,398	-	14,365	-	-	-
Value of shipments.....do....	297,691	4,932	27,838	69,222	96,508	56,633	-	42,558	-	-	-
Capital expenditures, new...do....	378	-	19	60	131	130	-	38	-	-	-
	Subindustry 2331-33.—Blouses[14]—CONTRACTORS										
Establishments.....number..	692	32	35	107	260	153	89	14	1	1	-
All employees:											
Total.....do....	40,412	78	243	1,568	8,412	10,569	12,980	6,562	(D)	(D)	-
Payroll.....$1,000..	111,669	330	711	4,192	22,156	29,351	36,555	18,374	(D)	(D)	-
Value added, adjusted.....do....	148,095	582	1,326	5,778	31,394	37,698	48,277	23,040	(D)	(D)	-
Value of shipments.....do....	162,176	678	1,559	7,241	33,608	40,311	51,798	26,981	(D)	(D)	-
Capital expenditures, new...do....	2,631	3	26	56	378	502	842	824	(D)	(D)	-
	INDUSTRY 2335.—DRESSES[15]										
Establishments.....number..	4,752	581	405	753	1,774	855	323	48	13	-	-
All employees:											
Total.....do....	200,003	1,137	2,839	10,851	56,919	57,713	47,003	15,620	7,921	-	-
Payroll.....$1,000..	686,818	6,066	12,865	47,153	202,241	188,644	147,673	55,976	26,200	-	-
Value added, adjusted.....do....	1,180,883	20,906	31,637	97,866	358,581	301,329	240,032	98,081	32,451	-	-
Value of shipments.....do....	2,410,972	54,787	93,615	277,681	741,719	541,586	433,303	203,208	65,073	-	-
Capital expenditures, new...do....	12,699	226	321	841	3,190	3,347	2,676	1,516	582	-	-
	Subindustry 2335-11.—Dresses[15]—MANUFACTURES										
Establishments.....number..	970	210	100	145	252	152	80	23	8	-	-
All employees:											
Total.....do....	46,446	431	679	2,098	7,948	10,375	11,993	7,710	5,212	-	-
Payroll.....$1,000..	177,028	1,787	2,735	8,194	32,009	43,027	42,632	27,410	19,234	-	-
Value added, adjusted.....do....	305,086	5,973	6,652	16,384	59,309	74,238	73,347	45,424	23,759	-	-
Value of shipments.....do....	601,158	10,884	13,044	31,265	115,493	144,173	138,440	92,814	55,045	-	-
Capital expenditures, new...do....	4,225	115	120	192	804	996	688	825	485	-	-
	Subindustry 2335-22.—Dresses[15]—JOBBERS										
Establishments.....number..	681	122	118	188	183	42	23	5	-	-	-
All employees:											
Total.....do....	16,738	274	851	2,639	5,404	2,832	3,207	1,531	-	-	-
Payroll.....$1,000..	117,191	2,128	5,791	21,047	41,517	19,586	17,259	9,863	-	-	-
Value added, adjusted.....do....	340,206	12,285	17,796	54,002	117,636	56,403	50,423	31,661	-	-	-
Value of shipments.....do....	1,156,772	39,350	69,921	209,387	405,648	189,904	155,865	86,697	-	-	-
Capital expenditures, new...do....	2,104	46	79	273	457	366	380	503	-	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
Subindustry 2335-33.—Dresses[15]—CONTRACTORS											
Establishments.....number..	2,434	78	105	311	1,138	576	201	20	5	-	-
All employees:											
Total.....do....	119,463	150	755	4,589	37,206	38,715	28,960	6,379	2,709	-	-
Payroll.....$1,000..	346,278	708	2,915	13,908	112,092	110,698	80,288	18,703	6,966	-	-
Value added, adjusted.....do....	436,944	781	4,091	18,747	145,732	137,481	100,424	20,996	8,692	-	-
Value of shipments.....do....	464,674	1,101	4,679	20,389	152,654	144,551	107,575	23,697	10,028	-	-
Capital expenditures, new...do....	3,664	25	39	128	925	1,085	1,177	188	97	-	-
INDUSTRY 2337.—WOMEN'S SUITS, COATS, AND SKIRTS[16]											
Establishments.....number..	2,516	320	293	523	861	380	120	13	6	-	-
All employees:											
Total.....do....	88,332	607	2,022	7,435	27,447	25,621	16,521	4,510	4,169	-	-
Payroll.....$1,000..	361,001	3,415	10,228	34,739	112,948	97,324	66,984	14,909	20,454	-	-
Value added, adjusted.....do....	637,869	9,719	23,063	73,490	197,751	157,435	112,662	23,042	40,707	-	-
Value of shipments.....do....	1,522,725	37,113	80,776	210,096	455,139	322,346	258,535	49,965	108,755	-	-
Capital expenditures, new...do....	12,334	574	528	1,234	3,506	2,890	2,624	533	445	-	-
Subindustry 2337-11.—Women's Suits, Coats, and Skirts[16]—MANUFACTURES											
Establishments.....number..	573	92	80	94	157	99	43	5	3	-	-
All employees:											
Total.....do....	23,878	161	563	1,350	5,047	6,862	6,037	1,797	2,061	-	-
Payroll.....$1,000..	108,274	917	2,531	5,792	25,273	30,748	27,113	7,378	8,522	-	-
Value added, adjusted.....do....	189,908	2,529	5,897	12,635	42,643	53,645	46,229	11,961	14,369	-	-
Value of shipments.....do....	405,133	6,008	12,876	26,571	89,096	108,951	101,268	28,669	31,694	-	-
Capital expenditures, new...do....	4,529	452	209	290	808	859	1,485	349	77	-	-
Subindustry 2337-22.—Women's Suits, Coats, and Skirts[16]—JOBBERS											
Establishments.....number..	455	98	89	130	93	27	14	2	2	-	-
All employees:											
Total.....do....	11,656	201	598	1,760	2,815	1,757	2,100	2,425	(D)	-	-
Payroll.....$1,000..	74,912	1,497	4,512	13,103	21,320	11,024	11,448	12,008	(D)	-	-
Value added, adjusted.....do....	194,331	5,251	11,382	35,405	53,123	28,459	31,872	28,839	(D)	-	-
Value of shipments.....do....	786,096	27,389	55,976	146,116	228,735	117,497	121,384	88,999	(D)	-	-
Capital expenditures, new...do....	1,489	27	72	201	295	232	402	260	(D)	-	-
Subindustry 2337-33.—Women's Suits, Coats, and Skirts[16]—CONTRACTORS											
Establishments.....number..	1,092	49	58	212	487	216	63	6	1	-	-
All employees:											
Total.....do....	44,716	113	403	3,063	15,628	14,730	8,384	2,396	(D)	-	-
Payroll.....$1,000..	153,666	514	1,680	12,040	54,294	49,260	28,423	7,455	(D)	-	-
Value added, adjusted.....do....	199,937	1,006	2,570	16,796	75,434	60,990	34,561	8,580	(D)	-	-
Value of shipments.....do....	212,676	1,374	2,912	18,066	80,190	64,893	35,883	9,358	(D)	-	-
Capital expenditures, new...do....	2,408	22	21	118	559	659	737	292	(D)	-	-
INDUSTRY 2339.—WOMEN'S OUTERWEAR, N.E.C.											
Establishments.....number..	1,297	215	166	207	340	229	113	19	7	1	-
All employees:											
Total.....do....	59,536	396	1,177	2,886	10,768	15,445	16,856	6,103	5,905	(D)	-
Payroll.....$1,000..	200,246	1,476	4,902	9,821	36,248	49,088	53,601	22,205	22,905	(D)	-
Value added, adjusted.....do....	340,462	4,345	11,942	21,633	63,580	75,885	88,577	42,781	31,719	(D)	-
Value of shipments.....do....	785,958	11,723	39,537	68,576	132,663	141,588	202,243	102,222	87,406	(D)	-
Capital expenditures, new...do....	7,015	89	224	420	1,120	1,690	1,683	1,166	623	(D)	-
Subindustry 2339-11.—Women's Outerwear, N.E.C.—MANUFACTURES											
Establishments.....number..	704	170	106	120	145	94	52	10	6	1	-
All employees:											
Total.....do....	29,557	311	742	1,670	4,487	6,308	7,634	8,405	(D)	(D)	-
Payroll.....$1,000..	102,664	1,013	2,321	4,872	14,962	20,979	26,346	32,171	(D)	(D)	-
Value added, adjusted.....do....	172,929	1,803	4,376	8,577	25,041	36,472	46,654	50,006	(D)	(D)	-
Value of shipments.....do....	376,867	3,726	9,658	17,176	53,244	79,004	95,749	118,310	(D)	(D)	-
Capital expenditures, new...do....	4,399	61	140	214	582	994	905	1,503	(D)	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
Subindustry 2339-22.—Women's Outerwear, N.E.C.—JOBBERS											
Establishments.....number..	153	34	35	32	28	11	7	5	1	-	-
All employees:											
Total.....do....	5,881	64	248	422	819	700	1,118	2,510	(D)	-	-
Payroll.....$1,000..	28,842	358	1,913	2,781	5,199	3,199	5,353	10,039	(D)	-	-
Value added, adjusted.....do....	77,424	2,359	6,664	10,009	16,741	7,334	13,209	21,108	(D)	-	-
Value of shipments.....do....	311,224	7,781	28,852	48,046	55,411	28,179	75,089	67,866	(D)	-	-
Capital expenditures, new...do....	687	22	59	136	113	62	52	243	(D)	-	-
Subindustry 2339-33.—Women's Outerwear, N.E.C.—CONTRACTORS											
Establishments.....number..	440	11	25	55	167	124	54	4	-	-	-
All employees:											
Total.....do....	24,098	21	187	794	5,462	8,437	8,104	1,093	-	-	-
Payroll.....$1,000..	68,740	105	668	2,168	16,087	24,910	21,902	2,900	-	-	-
Value added, adjusted.....do....	90,109	183	902	3,047	21,798	32,079	28,714	3,386	-	-	-
Value of shipments.....do....	97,867	216	1,027	3,354	24,008	34,405	31,405	3,452	-	-	-
Capital expenditures, new...do....	1,929	6	25	70	425	634	726	43	-	-	-
INDUSTRY 2341.—WOMEN'S AND CHILDREN'S UNDERWEAR											
Establishments.....number..	1,069	163	110	168	240	162	161	48	16	1	-
All employees:											
Total.....do....	76,723	339	747	2,308	7,956	11,328	25,331	16,986	11,728	(D)	-
Payroll.....$1,000..	238,850	1,661	3,359	8,774	25,201	34,881	74,724	53,456	36,794	(D)	-
Value added, adjusted.....do....	430,771	4,568	8,220	19,391	46,887	58,761	129,683	95,917	67,344	(D)	-
Value of shipments.....do....	976,108	19,783	34,530	61,579	129,731	131,361	269,710	199,125	130,289	(D)	-
Capital expenditures, new...do....	6,412	29	118	218	608	836	1,752	1,773	1,078	(D)	-
Subindustry 2341-11.—Women's and Children's Underwear—MANUFACTURERS											
Establishments.....number..	604	101	64	81	131	90	96	32	8	1	-
All employees:											
Total.....do....	45,219	199	445	1,083	4,348	6,241	15,353	11,052	6,498	(D)	-
Payroll.....$1,000..	141,950	667	1,524	3,207	13,084	19,197	46,498	35,614	22,159	(D)	-
Value added, adjusted.....do....	284,188	1,299	3,585	6,696	23,585	34,033	90,366	74,759	49,865	(D)	-
Value of shipments.....do....	641,858	2,744	7,674	14,048	52,825	75,512	202,726	175,645	110,684	(D)	-
Capital expenditures, new...do....	4,239	13	63	97	363	438	1,032	1,270	963	(D)	-
Subindustry 2341-22.—Women's and Children's Underwear—JOBBERS											
Establishments.....number..	146	49	29	34	22	9	3	-	-	-	-
All employees:											
Total.....do....	2,365	108	185	461	694	582	335	-	-	-	-
Payroll.....$1,000..	16,225	885	1,504	3,386	4,341	3,494	2,615	-	-	-	-
Value added, adjusted.....do....	44,459	2,995	3,973	9,773	12,407	9,292	6,019	-	-	-	-
Value of shipments.....do....	221,493	16,650	26,005	44,158	64,285	39,038	31,357	-	-	-	-
Capital expenditures, new...do....	383	13	47	82	113	34	94	-	-	-	-
Subindustry 2341-33.—Women's and Children's Underwear—CONTRACTORS											
Establishments.....number..	319	13	17	53	87	63	62	16	8	-	-
All employees:											
Total.....do....	29,139	32	117	764	2,914	4,505	9,643	5,934	5,230	-	-
Payroll.....$1,000..	80,675	109	331	2,181	7,776	12,190	25,611	17,842	14,635	-	-
Value added, adjusted.....do....	102,124	274	662	2,922	10,895	15,436	33,298	21,158	17,479	-	-
Value of shipments.....do....	112,757	389	851	3,373	12,621	16,811	35,627	23,480	19,605	-	-
Capital expenditures, new...do....	1,790	3	8	39	132	364	626	503	115	-	-
INDUSTRY 2342.—CORSETS AND ALLIED GARMENTS											
Establishments.....number..	351	43	28	46	60	56	85	23	7	3	-
All employees:											
Total.....do....	37,144	79	171	642	1,947	4,085	13,391	8,237	4,735	3,857	-
Payroll.....$1,000..	139,907	377	710	2,356	7,785	14,261	48,295	30,765	16,514	18,844	-
Value added, adjusted.....do....	310,150	859	1,306	4,503	15,625	22,707	90,495	82,090	40,308	52,257	-
Value of shipments.....do....	593,912	3,148	4,117	9,146	47,990	43,512	175,201	142,930	74,239	93,629	-
Capital expenditures, new...do....	3,514	408	(D)	(D)	135	334	834	571	647	585	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
Subindustry 2342-11.—Corsets and Allied Garments—MANUFACTURERS											
Establishments.....number..	263	33	19	36	48	42	61	17	4	3	-
All employees:											
Total.....do....	27,669	65	118	509	1,592	3,079	9,650	8,799	(D)	3,857	-
Payroll.....$1,000..	111,003	228	386	1,801	5,649	11,567	36,904	35,624	(D)	18,844	-
Value added, adjusted.....do....	268,861	364	541	3,407	9,887	19,631	75,081	107,693	(D)	52,257	-
Value of shipments.....do....	517,243	857	1,003	6,087	19,039	40,268	154,019	202,341	(D)	93,629	-
Capital expenditures, new...do....	2,975	340	13	41	105	299	601	991	(D)	585	-
Subindustry 2342-22.—Corsets and Allied Garments—JOBBERS											
Establishments.....number..	20	8	4	2	5	-	1	-	-	-	-
All employees:											
Total.....do....	323	34	(D)	289	(D)	-	(D)	-	-	-	-
Payroll.....$1,000..	3,273	343	(D)	2,930	(D)	-	(D)	-	-	-	-
Value added, adjusted.....do....	10,812	1,047	(D)	9,765	(D)	-	(D)	-	-	-	-
Value of shipments.....do....	45,216	5,152	(D)	40,064	(D)	-	(D)	-	-	-	-
Capital expenditures, new...do....	23	23	(D)	(D)	(D)	-	(D)	-	-	-	-
Subindustry 2342-33.—Corsets and Allied Garments—CONTRACTORS											
Establishments.....number..	68	2	5	8	7	14	23	6	3	-	-
All employees:											
Total.....do....	9,152	33	(D)	4,946	(D)	(D)	(D)	4,173	(D)	-	-
Payroll.....$1,000..	25,631	130	(D)	13,486	(D)	(D)	(D)	11,655	(D)	-	-
Value added, adjusted.....do....	30,477	213	(D)	15,559	(D)	(D)	(D)	14,705	(D)	-	-
Value of shipments.....do....	31,453	253	(D)	16,372	(D)	(D)	(D)	14,828	(D)	-	-
Capital expenditures, new...do....	516	4	(D)	285	(D)	(D)	(D)	227	(D)	-	-
INDUSTRY 2351.—MILLINERY											
Establishments.....number..	711	195	137	158	163	46	8	3	1	-	-
All employees:											
Total.....do....	14,183	396	922	2,182	4,890	3,102	1,157	1,534	(D)	-	-
Payroll.....$1,000..	55,576	1,408	3,722	8,968	19,956	11,847	4,268	5,407	(D)	-	-
Value added, adjusted.....do....	93,168	2,995	7,517	16,798	32,520	19,048	7,266	7,024	(D)	-	-
Value of shipments.....do....	163,185	5,221	14,466	29,405	55,656	33,967	11,949	12,521	(D)	-	-
Capital expenditures, new...do....	686	19	58	115	304	136	41	13	(D)	-	-
INDUSTRY 2352.—HATS AND CAPS											
Establishments.....number..	436	140	61	62	87	45	33	5	3	-	-
All employees:											
Total.....do....	16,608	243	402	823	2,759	3,131	4,856	2,167	2,227	-	-
Payroll.....$1,000..	60,463	964	1,327	2,998	9,850	10,903	15,715	9,856	8,850	-	-
Value added, adjusted.....do....	91,606	2,010	2,588	5,615	15,071	16,743	25,195	12,116	12,268	-	-
Value of shipments.....do....	171,108	3,989	4,764	10,334	28,355	30,001	47,187	25,198	21,280	-	-
Capital expenditures, new...do....	2,274	17	34	77	111	246	376	408	1,005	-	-
INDUSTRY 2361.—CHILDRENS' DRESSES AND BLOUSES											
Establishments.....number..	667	83	57	115	206	113	73	16	4	-	-
All employees:											
Total.....do....	35,792	177	411	1,685	6,662	7,860	11,198	5,369	2,430	-	-
Payroll.....$1,000..	115,061	571	1,590	6,121	22,633	25,460	33,421	16,330	8,935	-	-
Value added, adjusted.....do....	205,623	2,290	4,490	14,694	39,517	44,568	51,387	25,919	22,758	-	-
Value of shipments.....do....	443,343	6,121	15,324	42,745	100,479	106,239	86,261	43,141	43,033	-	-
Capital expenditures, new...do....	2,973	25	39	197	414	350	1,463	263	222	-	-
Subindustry 2361-11.—Children's Dresses and Blouses—MANUFACTURERS											
Establishments.....number..	292	62	34	49	69	40	26	8	4	-	-
All employees:											
Total.....do....	15,129	135	243	686	2,090	2,706	4,205	2,634	2,430	-	-
Payroll.....$1,000..	51,302	410	662	2,252	7,114	9,373	14,303	8,253	8,935	-	-
Value added, adjusted.....do....	106,113	944	1,379	5,376	14,456	18,912	26,422	15,866	22,758	-	-
Value of shipments.....do....	232,289	2,102	4,194	13,985	34,512	48,324	53,348	32,791	43,033	-	-
Capital expenditures, new...do....	1,930	17	32	62	234	200	965	198	222	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
Subindustry 2361-22.—Children's Dresses and Blouses—JOBBERS											
Establishments.....number..	79	10	13	18	23	13	2	-	-	-	-
All employees:											
Total.....do....	2,110	13	92	244	682	1,079	(D)	-	-	-	-
Payroll.....$1,000..	13,303	96	627	1,923	4,983	5,674	(D)	-	-	-	-
Value added, adjusted.....do....	35,505	1,273	2,643	6,826	11,241	13,522	(D)	-	-	-	-
Value of shipments.....do....	142,788	3,932	10,479	26,016	51,341	51,020	(D)	-	-	-	-
Capital expenditures, new...do....	200	125	(D)	(D)	55	20	(D)	-	-	-	-
Subindustry 2361-33.—Children's Dresses and Blouses—CONTRACTORS											
Establishments.....number..	296	11	10	48	114	60	45	8	-	-	-
All employees:											
Total.....do....	18,553	29	76	755	3,890	11,068	(D)	2,735	-	-	-
Payroll.....$1,000..	50,456	65	301	1,946	10,536	29,531	(D)	8,077	-	-	-
Value added, adjusted.....do....	64,005	73	468	2,492	13,820	37,099	(D)	10,053	-	-	-
Value of shipments.....do....	68,266	87	651	2,744	14,626	39,808	(D)	10,350	-	-	-
Capital expenditures, new...do....	843	25	(D)	(D)	125	628	(D)	65	-	-	-
INDUSTRY 2363.—CHILDREN'S COATS AND SUITS											
Establishments.....number..	285	49	30	54	86	38	23	5	-	-	-
All employees:											
Total.....do....	11,848	109	209	765	2,820	2,591	3,705	1,649	-	-	-
Payroll.....$1,000..	42,986	545	768	4,063	9,820	10,352	12,635	4,803	-	-	-
Value added, adjusted.....do....	72,735	1,080	1,996	8,973	15,524	17,717	19,061	8,384	-	-	-
Value of shipments.....do....	162,929	5,068	6,424	29,618	34,045	42,318	32,270	13,186	-	-	-
Capital expenditures, new...do....	1,106	24	32	113	196	251	331	159	-	-	-
Subindustry 2363-11.—Children's Coats and Suits—MANUFACTURERS											
Establishments.....number..	123	27	20	26	23	14	10	3	-	-	-
All employees:											
Total.....do....	5,124	56	144	362	783	1,004	2,775	(D)	-	-	-
Payroll.....$1,000..	18,947	176	435	1,661	2,992	3,983	9,700	(D)	-	-	-
Value added, adjusted.....do....	33,350	326	746	3,095	4,970	6,699	17,514	(D)	-	-	-
Value of shipments.....do....	74,561	929	1,842	10,278	11,915	14,471	35,126	(D)	-	-	-
Capital expenditures, new...do....	547	14	30	65	94	118	226	(D)	-	-	-
Subindustry 2363-22.—Children's Coats and Suits—JOBBERS											
Establishments.....number..	45	14	6	14	6	5	-	-	-	-	-
All employees:											
Total.....do....	767	34	37	198	150	348	-	-	-	-	-
Payroll.....$1,000..	5,968	310	261	1,688	1,146	2,563	-	-	-	-	-
Value added, adjusted.....do....	15,502	667	1,133	4,846	3,451	5,405	-	-	-	-	-
Value of shipments.....do....	62,149	4,042	4,455	18,162	13,834	21,656	-	-	-	-	-
Capital expenditures, new...do....	97	46	(D)	(D)	7	44	-	-	-	-	-
Subindustry 2363-33.—Children's Coats and Suits—CONTRACTORS											
Establishments.....number..	117	8	4	14	57	19	13	2	-	-	-
All employees:											
Total.....do....	5,957	19	28	205	1,887	1,239	2,579	(D)	-	-	-
Payroll.....$1,000..	18,071	59	72	714	5,682	3,806	7,738	(D)	-	-	-
Value added, adjusted.....do....	23,883	87	117	1,032	7,103	5,613	9,931	(D)	-	-	-
Value of shipments.....do....	26,219	97	127	1,178	8,296	6,191	10,330	(D)	-	-	-
Capital expenditures, new...do....	462	14	(D)	(D)	95	89	264	(D)	-	-	-
INDUSTRY 2369.—CHILDREN'S OUTERWEAR, N.E.C.											
Establishments.....number..	624	101	61	102	170	96	76	15	2	1	-
All employees:											
Total.....do....	34,244	243	408	1,444	5,460	6,510	11,382	8,797	(D)	(D)	-
Payroll.....$1,000..	107,012	959	1,714	5,070	17,832	21,243	33,395	26,799	(D)	(D)	-
Value added, adjusted.....do....	188,344	3,099	4,183	14,179	31,672	38,916	55,135	41,160	(D)	(D)	-
Value of shipments.....do....	419,551	9,679	15,274	45,170	77,765	88,174	109,217	74,272	(D)	(D)	-
Capital expenditures, new...do....	2,795	28	48	159	493	495	1,019	553	(D)	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
Subindustry 2369-11.—Children's Outerwear, N.E.C.—MANUFACTURERS											
Establishments.....number..	333	62	36	55	90	39	42	8	-	1	-
All employees:											
Total.....do....	18,086	142	235	754	2,926	2,654	6,363	5,012	-	(D)	-
Payroll.....$1,000..	55,434	399	767	2,190	9,119	8,347	19,017	15,595	-	(D)	-
Value added, adjusted.....do....	91,304	756	1,504	4,159	15,703	15,431	31,188	22,563	-	(D)	-
Value of shipments.....do....	187,381	1,606	3,261	8,010	33,798	30,435	64,665	45,606	-	(D)	-
Capital expenditures, new...do....	1,255	22	(D)	71	252	199	412	299	-	(D)	-
Subindustry 2369-22.—Children's Outerwear, N.E.C.—JOBBERS											
Establishments.....number..	99	29	19	16	18	12	4	-	1	-	-
All employees:											
Total.....do....	3,143	69	127	222	569	712	1,444	-	(D)	-	-
Payroll.....$1,000..	15,596	413	816	1,582	3,518	3,854	5,413	-	(D)	-	-
Value added, adjusted.....do....	49,438	1,988	2,511	7,772	8,662	11,423	17,082	-	(D)	-	-
Value of shipments.....do....	180,574	7,619	11,821	34,656	36,116	44,725	45,637	-	(D)	-	-
Capital expenditures, new...do....	387	21	27	57	78	89	115	-	(D)	-	-
Subindustry 2369-33.—Children's Outerwear, N.E.C.—CONTRACTORS											
Establishments.....number..	192	10	6	31	62	45	30	7	1	-	-
All employees:											
Total.....do....	13,015	32	46	468	1,965	3,144	7,360	(D)	(D)	-	-
Payroll.....$1,000..	35,982	147	131	1,298	5,195	9,042	20,169	(D)	(D)	-	-
Value added, adjusted.....do....	47,602	355	168	2,248	7,307	12,062	25,462	(D)	(D)	-	-
Value of shipments.....do....	51,596	454	192	2,504	7,851	13,014	27,581	(D)	(D)	-	-
Capital expenditures, new...do....	1,153	6	(D)	31	163	207	746	(D)	(D)	-	-
INDUSTRY 2371.—FUR GOODS											
Establishments.....number..	1,591	1,016	309	172	81	11	2	-	-	-	-
All employees:											
Total.....do....	9,289	1,705	2,010	2,323	2,257	994	(D)	-	-	-	-
Payroll.....$1,000..	55,961	8,749	11,742	14,263	14,973	6,234	(D)	-	-	-	-
Value added, adjusted.....do....	110,619	22,306	22,301	24,491	32,043	9,478	(D)	-	-	-	-
Value of shipments.....do....	334,414	67,204	73,051	82,209	83,071	28,879	(D)	-	-	-	-
Capital expenditures, new...do....	1,245	410	295	232	209	99	(D)	-	-	-	-
INDUSTRY 2381.—FABRIC DRESS AND WORK GLOVES											
Establishments.....number..	197	44	21	29	31	35	26	10	1	-	-
All employees:											
Total.....do....	12,771	92	128	404	1,015	2,566	4,379	4,187	(D)	-	-
Payroll.....$1,000..	36,673	281	438	1,307	3,328	7,001	12,078	12,240	(D)	-	-
Value added, adjusted.....do....	68,372	722	897	3,023	5,032	11,649	27,309	19,740	(D)	-	-
Value of shipments.....do....	149,503	2,744	2,595	6,716	14,684	27,315	52,983	42,466	(D)	-	-
Capital expenditures, new...do....	1,092	6	6	24	82	181	417	376	(D)	-	-
Subindustry 2381-11.—Fabric Dress and Work Gloves—MANUFACTURERS											
Establishments.....number..	171	37	15	25	25	33	25	10	1	-	-
All employees:											
Total.....do....	12,060	74	90	355	7,351	(D)	(D)	4,187	(D)	-	-
Payroll.....$1,000..	34,210	211	258	1,036	20,465	(D)	(D)	12,240	(D)	-	-
Value added, adjusted.....do....	63,416	506	644	2,338	40,188	(D)	(D)	19,740	(D)	-	-
Value of shipments.....do....	138,054	2,290	1,087	4,663	87,548	(D)	(D)	42,466	(D)	-	-
Capital expenditures, new...do....	1,075	3	4	18	674	(D)	(D)	376	(D)	-	-
INDUSTRY 2384.—ROBES AND DRESSING GOWNS											
Establishments.....number..	271	52	30	45	86	28	25	5	-	-	-
All employees:											
Total.....do....	11,889	110	193	629	2,926	1,959	4,309	1,763	-	-	-
Payroll.....$1,000..	37,381	625	654	2,234	10,172	5,546	13,071	5,079	-	-	-
Value added, adjusted.....do....	68,717	2,434	1,509	4,912	19,251	8,892	23,088	8,631	-	-	-
Value of shipments.....do....	173,450	9,704	5,229	14,834	60,016	15,147	49,277	19,243	-	-	-
Capital expenditures, new...do....	818	9	21	52	174	158	358	46	-	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
Subindustry 2384-11.—Robes and Dressing Gowns—MANUFACTURERS											
Establishments.....number..	100	20	15	13	23	13	12	4	-	-	-
All employees:											
Total.....do....	5,532	42	96	193	766	921	3,514	(D)	-	-	-
Payroll.....$1,000..	17,056	182	274	521	2,304	3,056	10,719	(D)	-	-	-
Value added, adjusted.....do....	31,390	285	548	997	4,561	5,601	19,398	(D)	-	-	-
Value of shipments.....do....	69,920	952	1,171	1,900	9,277	11,652	44,968	(D)	-	-	-
Capital expenditures, new...do....	402	7	16	17	61	126	175	(D)	-	-	-
Subindustry 2384-22.—Robes and Dressing Gowns—JOBBERS											
Establishments.....number..	59	22	7	8	19	-	3	-	-	-	-
All employees:											
Total.....do....	1,320	47	41	116	625	-	491	-	-	-	-
Payroll.....$1,000..	7,241	347	245	809	4,054	-	1,786	-	-	-	-
Value added, adjusted.....do....	20,609	1,996	778	2,543	9,985	-	5,307	-	-	-	-
Value of shipments.....do....	85,141	8,582	3,820	11,328	45,242	-	16,169	-	-	-	-
Capital expenditures, new...do....	139	5	(D)	18	67	-	49	-	-	-	-
Subindustry 2384-33.—Robes and Dressing Gowns—CONTRACTORS											
Establishments.....number..	112	10	8	24	44	15	10	1	-	-	-
All employees:											
Total.....do....	5,037	21	56	320	1,535	1,038	2,067	(D)	-	-	-
Payroll.....$1,000..	13,084	96	135	904	3,814	2,490	5,645	(D)	-	-	-
Value added, adjusted.....do....	16,718	153	183	1,372	4,705	3,291	7,014	(D)	-	-	-
Value of shipments.....do....	18,389	170	238	1,606	5,497	3,495	7,383	(D)	-	-	-
Capital expenditures, new...do....	277	2	(D)	17	46	32	180	(D)	-	-	-
INDUSTRY 2385.—WATERPROOF OUTERGARMENTS											
Establishments.....number..	341	53	35	57	103	59	22	9	3	-	-
All employees:											
Total.....do....	16,448	101	243	810	3,287	4,007	3,345	2,814	1,841	-	-
Payroll.....$1,000..	60,824	540	1,188	3,511	13,098	13,260	11,883	10,328	7,016	-	-
Value added, adjusted.....do....	111,342	1,503	3,033	7,285	22,188	22,221	20,751	19,741	14,620	-	-
Value of shipments.....do....	235,540	7,171	10,423	23,347	54,870	39,345	36,831	39,161	24,392	-	-
Capital expenditures, new...do....	2,185	24	27	69	254	354	761	370	326	-	-
Subindustry 2385-11.—Waterproof Outergarments—MANUFACTURERS											
Establishments.....number..	172	36	22	31	37	23	13	7	3	-	-
All employees:											
Total.....do....	9,746	71	150	446	1,136	6,102	(D)	(D)	1,841	-	-
Payroll.....$1,000..	36,435	318	481	1,509	4,149	22,962	(D)	(D)	7,016	-	-
Value added, adjusted.....do....	69,496	562	1,165	3,054	7,260	42,835	(D)	(D)	14,620	-	-
Value of shipments.....do....	150,363	2,198	2,279	9,270	20,772	91,452	(D)	(D)	24,392	-	-
Capital expenditures, new...do....	1,741	10	20	42	82	1,261	(D)	(D)	326	-	-
Subindustry 2385-22.—Waterproof Outergarments—JOBBERS											
Establishments.....number..	52	15	9	14	12	1	1	-	-	-	-
All employees:											
Total.....do....	779	90	(D)	182	507	(D)	(D)	-	-	-	-
Payroll.....$1,000..	5,387	791	(D)	1,268	3,328	(D)	(D)	-	-	-	-
Value added, adjusted.....do....	15,488	2,587	(D)	3,235	9,666	(D)	(D)	-	-	-	-
Value of shipments.....do....	56,888	12,854	(D)	12,907	31,127	(D)	(D)	-	-	-	-
Capital expenditures, new...do....	122	19	(D)	19	84	(D)	(D)	-	-	-	-
Subindustry 2385-33.—Waterproof Outergarments—CONTRACTORS											
Establishments.....number..	117	2	4	12	54	35	8	2	-	-	-
All employees:											
Total.....do....	5,923	33	(D)	182	4,132	(D)	1,576	(D)	-	-	-
Payroll.....$1,000..	19,002	138	(D)	734	13,632	(D)	4,498	(D)	-	-	-
Value added, adjusted.....do....	26,358	222	(D)	996	17,818	(D)	7,322	(D)	-	-	-
Value of shipments.....do....	28,289	263	(D)	1,170	19,291	(D)	7,565	(D)	-	-	-
Capital expenditures, new...do....	322	2	(D)	8	231	(D)	81	(D)	-	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2386.—LEATHER AND SHEEPLINED CLOTHING											
Establishments.....number..	114	34	11	19	28	15	6	1	-	-	-
All employees:											
Total.....do....	3,352	67	67	266	884	1,042	1,026	(D)	-	-	-
Payroll.....$1,000..	12,817	268	304	1,295	3,599	3,682	3,669	(D)	-	-	-
Value added, adjusted.....do....	23,351	701	612	2,772	5,765	6,100	7,401	(D)	-	-	-
Value of shipments.....do....	56,380	1,482	2,083	10,006	13,368	13,211	16,230	(D)	-	-	-
Capital expenditures, new...do....	315	9	5	22	48	48	183	(D)	-	-	-
Subindustry 2386-11.—Leather and Sheeplined Clothing—MANUFACTURERS											
Establishments.....number..	89	30	9	11	23	9	6	1	-	-	-
All employees:											
Total.....do....	2,691	60	52	153	739	661	1,026	(D)	-	-	-
Payroll.....$1,000..	10,441	246	196	784	3,050	2,496	3,669	(D)	-	-	-
Value added, adjusted.....do....	19,185	530	277	1,259	5,012	4,706	7,401	(D)	-	-	-
Value of shipments.....do....	45,014	1,090	571	3,630	11,829	11,664	16,230	(D)	-	-	-
Capital expenditures, new...do....	301	9	5	21	46	37	183	(D)	-	-	-
Subindustry 2386-22.—Leather and Sheeplined Clothing—JOBBERS											
Establishments.....number..	5	1	1	2	1	-	-	-	-	-	-
All employees:											
Total.....do....	57	57	(D)	(D)	(D)	-	-	-	-	-	-
Payroll.....$1,000..	398	398	(D)	(D)	(D)	-	-	-	-	-	-
Value added, adjusted.....do....	1,839	1,839	(D)	(D)	(D)	-	-	-	-	-	-
Value of shipments.....do....	8,703	8,703	(D)	(D)	(D)	-	-	-	-	-	-
Capital expenditures, new...do....	-	-	-	-	-	-	-	-	-	-	-
Subindustry 2386-33.—Leather and Sheeplined Clothing—CONTRACTORS											
Establishments.....number..	20	3	1	6	4	6	-	-	-	-	-
All employees:											
Total.....do....	604	223	(D)	(D)	(D)	381	-	-	-	-	-
Payroll.....$1,000..	1,978	792	(D)	(D)	(D)	1,186	-	-	-	-	-
Value added, adjusted.....do....	2,327	933	(D)	(D)	(D)	1,394	-	-	-	-	-
Value of shipments.....do....	2,663	1,116	(D)	(D)	(D)	1,547	-	-	-	-	-
Capital expenditures, new...do....	14	3	(D)	(D)	(D)	11	-	-	-	-	-
INDUSTRY 2387.—APPAREL BELTS											
Establishments.....number..	389	108	61	79	91	35	12	2	1	-	-
All employees:											
Total.....do....	9,841	231	420	1,099	2,778	2,278	1,738	1,297	(D)	-	-
Payroll.....$1,000..	35,590	956	1,546	3,645	9,612	8,029	5,561	6,241	(D)	-	-
Value added, adjusted.....do....	62,172	1,791	2,580	6,223	17,791	13,305	9,094	11,388	(D)	-	-
Value of shipments.....do....	108,600	3,261	4,491	10,044	30,860	23,033	15,808	21,103	(D)	-	-
Capital expenditures, new...do....	697	23	28	55	169	223	116	83	(D)	-	-
Subindustries 2387-11 and -22.—Apparel Belts—MANUFACTURERS AND JOBBERS[1]											
Establishments.....number..	327	92	52	61	74	33	12	2	1	-	-
All employees:											
Total.....do....	8,866	187	359	860	4,425	(D)	1,738	1,297	(D)	-	-
Payroll.....$1,000..	32,324	781	1,349	2,934	15,458	(D)	5,561	6,241	(D)	-	-
Value added, adjusted.....do....	57,376	1,480	2,256	5,136	28,022	(D)	9,094	11,388	(D)	-	-
Value of shipments.....do....	101,669	2,847	4,091	8,500	49,320	(D)	15,808	21,103	(D)	-	-
Capital expenditures, new...do....	669	89	(D)	(D)	381	(D)	116	83	(D)	-	-
Subindustry 2387-33.—Apparel Belts—CONTRACTORS											
Establishments.....number..	62	16	9	18	17	2	-	-	-	-	-
All employees:											
Total.....do....	975	44	61	239	631	(D)	-	-	-	-	-
Payroll.....$1,000..	3,266	175	197	711	2,183	(D)	-	-	-	-	-
Value added, adjusted.....do....	4,796	311	324	1,087	3,074	(D)	-	-	-	-	-
Value of shipments.....do....	6,931	414	400	1,544	4,573	(D)	-	-	-	-	-
Capital expenditures, new...do....	28	17	(D)	(D)	11	(D)	-	-	-	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2389.—APPAREL N.E.C.											
Establishments.....number..	270	81	51	30	72	23	10	3	-	-	-
All employees:											
Total.....do....	7,225	148	359	402	2,311	1,539	1,526	940	-	-	-
Payroll.....$1,000..	25,553	490	1,274	1,537	8,504	4,934	6,156	2,658	-	-	-
Value added, adjusted.....do....	43,211	920	3,010	2,972	15,438	7,937	8,814	4,120	-	-	-
Value of shipments.....do....	98,173	2,337	6,312	6,223	37,198	15,628	19,995	10,480	-	-	-
Capital expenditures, new...do....	517	39	(D)	25	186	137	98	32	-	-	-
Subindustry 2389-11.—Apparel N.E.C.—MANUFACTURERS											
Establishments.....number..	241	74	46	28	62	19	9	3	-	-	-
All employees:											
Total.....do....	6,431	135	698	(D)	1,978	2,680	(D)	940	-	-	-
Payroll.....$1,000..	23,372	457	2,618	(D)	7,521	10,118	(D)	2,658	-	-	-
Value added, adjusted.....do....	38,713	762	5,285	(D)	12,975	15,571	(D)	4,120	-	-	-
Value of shipments.....do....	89,382	2,094	10,530	(D)	32,075	34,203	(D)	10,480	-	-	-
Capital expenditures, new...do....	466	7	51	(D)	173	203	(D)	32	-	-	-
Subindustry 2389-22.—Apparel N.E.C.—JOBBERS											
Establishments.....number..	10	5	2	-	3	-	-	-	-	-	-
All employees:											
Total.....do....	104	21	(D)	-	84	-	-	-	-	-	-
Payroll.....$1,000..	409	76	(D)	-	333	-	-	-	-	-	-
Value added, adjusted.....do....	1,988	662	(D)	-	1,326	-	-	-	-	-	-
Value of shipments.....do....	5,817	1,971	(D)	-	3,846	-	-	-	-	-	-
Capital expenditures, new...do....	6	6	(D)	-	(D)	-	-	-	-	-	-
Subindustry 2389-33.—Apparel N.E.C.—CONTRACTORS											
Establishments.....number..	19	2	3	2	7	4	1	-	-	-	-
All employees:											
Total.....do....	690	56	(D)	(D)	249	385	(D)	-	-	-	-
Payroll.....$1,000..	1,772	150	(D)	(D)	650	972	(D)	-	-	-	-
Value added, adjusted.....do....	2,510	193	(D)	(D)	1,137	1,180	(D)	-	-	-	-
Value of shipments.....do....	2,974	277	(D)	(D)	1,277	1,420	(D)	-	-	-	-
Capital expenditures, new...do....	45	13	(D)	(D)	(D)	31	(D)	-	-	-	-
INDUSTRY 2391.--CURTAINS AND DRAPERIES											
Establishments.....number..	1,121	505	220	141	156	50	40	7	2	-	-
All employees:											
Total.....do....	21,955	714	1,489	1,941	4,801	3,546	6,058	3,406	(D)	-	-
Payroll.....$1,000..	75,114	2,824	5,163	6,771	18,114	12,632	19,544	10,066	(D)	-	-
Value added, adjusted.....do....	131,995	6,852	9,779	13,234	30,669	22,600	32,196	16,665	(D)	-	-
Value of shipments.....do....	312,987	13,218	21,860	23,866	64,496	77,174	69,333	43,040	(D)	-	-
Capital expenditures, new...do....	2,936	104	209	235	464	336	776	812	(D)	-	-
INDUSTRY 2392.--HOUSEFURNISHINGS, N.E.C.											
Establishments.....number..	1,239	444	178	195	230	95	73	19	5	-	-
All employees:											
Total.....do....	39,690	810	1,206	2,741	7,252	6,498	11,163	6,728	3,292	-	-
Payroll.....$1,000..	142,820	2,806	4,674	10,482	26,763	22,882	39,985	24,146	11,082	-	-
Value added, adjusted.....do....	285,759	6,973	11,620	23,691	53,680	44,893	79,657	44,490	20.755	-	-
Value of shipments.....do....	716,650	17,553	27,192	48,374	123,047	107,314	170,324	146,576	76.270	-	-
Capital expenditures, new...do....	8,384	221	318	505	1,217	1,465	1,993	2.117	548	-	-
INDUSTRY 2393.--TEXTILE BAGS											
Establishments.....number..	192	39	30	35	40	27	20	1	-	-	-
All employees:											
Total.....do....	7,191	83	206	493	1,164	1,902	3,343	(D)	-	-	-
Payroll.....$1,000..	28,254	327	698	1,885	4,277	7,215	13,852	(D)	-	-	-
Value added, adjusted.....do....	56,523	1,130	1,890	4,032	9,478	13,403	26,590	(D)	-	-	-
Value of shipments.....do....	200,426	3,413	5,228	11,898	28,705	53,183	97,999	(D)	-	-	-
Capital expenditures, new...do....	1,878	26	78	95	366	374	939	(D)	-	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2394.--CANVAS PRODUCTS											
Establishments.....number..	881	435	187	135	79	32	11	1	1	-	-
All employees:											
Total.....do....	11,170	774	1,286	1,798	2,288	2,302	2,722	(D)	(D)	-	-
Payroll.....$1,000..	44,550	2,961	4,838	7,705	9,382	8,968	10,696	(D)	(D)	-	-
Value added, adjusted.....do....	73,534	6,110	8,726	12,001	16,525	14,266	15,906	(D)	(D)	-	-
Value of shipments.....do....	166,402	13,153	17,251	23,539	34,428	34,036	43,995	(D)	(D)	-	-
Capital expenditures, new...do....	2,090	233	266	340	355	351	545	(D)	(D)	-	-
INDUSTRY 2395.--PLEATING AND STITCHING											
Establishments.....number..	1,316	569	259	243	195	40	9	1	-	-	-
All employees:											
Total.....do....	16,353	1,051	1,719	3,366	5,783	2,707	1,727	(D)	-	-	-
Payroll.....$1,000..	55,528	3,479	5,670	11,771	19,444	9,589	5,575	(D)	-	-	-
Value added, adjusted.....do....	95,240	7,953	10,392	21,680	32,019	14,811	8,385	(D)	-	-	-
Value of shipments.....do....	150,183	13,684	17,081	33,671	47,183	23,427	15,137	(D)	-	-	-
Capital expenditures, new...do....	2,837	767	367	572	676	332	123	(D)	-	-	-
INDUSTRY 2396.--APPAREL FINDINGS											
Establishments.....number..	756	250	155	138	140	44	20	4	2	2	1
All employees:											
Total.....do....	24,539	470	1,080	1,899	4,258	3,012	2,827	1,384	9,609	(D)	(D)
Payroll.....$1,000..	122,633	2,165	4,577	7,726	16,267	10,934	10,406	5,945	64,613	(D)	(D)
Value added, adjusted.....do....	227,810	4,890	8,067	14,103	28,943	20,952	21,316	11,961	117,578	(D)	(D)
Value of shipments.....do....	570,616	9,745	16,497	33,095	63,717	49,006	41,953	29,679	326,924	(D)	(D)
Capital expenditures, new...do....	8,321	93	129	301	637	710	526	742	5,183	(D)	(D)
INDUSTRY 2397.—SCHIFFLI MACHINE EMBROIDERIES											
Establishments.....number..	759	402	185	104	55	9	2	2	-	-	-
All employees:											
Total.....do....	6,145	683	1,209	1,388	1,465	1,400	(D)	(D)	-	-	-
Payroll.....$1,000..	30,517	3,627	6,273	7,099	7,715	5,803	(D)	(D)	-	-	-
Value added, adjusted.....dc....	55,411	7,734	11,864	11,803	12,934	11,076	(D)	(D)	-	-	-
Value of shipments.....do....	97,406	12,767	21,835	18,902	25,062	18,840	(D)	(D)	-	-	-
Capital expenditures. new...do....	2,425	702	371	246	691	415	(D)	(D)	-	-	-
INDUSTRY 2399.--TEXTILE PRODUCTS, N.E.C.											
Establishments.....number..	1,044	457	181	166	143	53	33	10	1	-	-
All employees:											
Total.....do....	21,350	808	1,215	2,299	4,414	3,676	5,187	3,751	(D)	-	-
Payroll.....$1,000..	79,252	2,808	4,357	8,611	17,294	12,664	20,847	12,671	(D)	-	-
Value added, adjusted.....do....	145,153	5,661	7,588	16,047	29,674	23,756	37,127	25,300	(D)	-	-
Value of shipments.....do....	342,311	10,752	15,638	32,043	72,451	56,849	86,316	68,262	(D)	-	-
Capital expenditures, new...do....	4,518	260	285	531	895	908	895	744	(D)	-	-
INDUSTRY 2411.—LOGGING CAMPS AND CONTRACTORS											
Establishments.....number..	13,588	9,546	2,368	1,117	433	85	30	4	5	-	-
All employees:											
Total.....do....	73,130	16,130	15,394	14,794	12,661	5,586	4,417	1,197	2,951	-	-
Payroll.....$1,000..	281,845	48,386	45,864	53,826	55,172	29,440	25,328	7,262	16,567	-	-
Value added, adjusted.....do....	520,457	119,475	85,325	98,782	104,510	47,330	36,001	7,318	21,716	-	-
Value of shipments.....do....	1,154,693	250,909	187,433	202,027	191,515	91,164	121,702	34,283	75,660	-	-
Capital expenditures, new...do....	95,602	24,198	18,941	18,992	15,780	6,250	6,155	2,016	3,270	-	-
INDUSTRY 2421.—SAWMILLS AND PLANING MILLS											
Establishments.....number..	12,189	5,933	2,228	1,877	1,291	539	233	59	21	7	1
All employees:											
Total.....do....	207,365	10,849	14,890	25,469	40,087	36,433	34,444	19,975	14,537	10,681	(D)
Payroll.....$1,000..	811,638	26,588	37,355	69,702	140,836	147,203	165,493	98,538	70,754	55,169	(D)
Value added, adjusted.....do....	1,376,080	52,170	64,415	121,245	251,503	260,383	279,181	150,012	116,629	80,542	(D)
Value of shipments.....do....	3,156,345	111,366	147,182	283,872	609,495	632,958	652,774	334,179	224,281	160.238	(D)
Capital expenditures, new...do....	172,471	11,546	12,575	19,154	45,761	21,194	23,612	12,298	15,578	10.753	(D)

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2426.—HARDWOOD DIMENSION AND FLOORING											
Establishments.....number..	642	149	90	86	135	108	61	11	2	-	-
All employees:											
Total.....do....	28,128	279	613	1,190	4,339	7,361	14,346	(D)	(D)	-	-
Payroll.....$1,000..	98,882	841	1,981	4,152	14,827	25,957	51,124	(D)	(D)	-	-
Value added, adjusted.....do....	155,083	1,763	3,315	4,533	23,949	40,335	81,188	(D)	(D)	-	-
Value of shipments.....do....	345,227	3,790	6,910	13,276	49,388	90,111	181,752	(D)	(D)	-	-
Capital expenditures, new...do....	7,106	139	198	303	1,537	2,067	2,862	(D)	(D)	-	-
INDUSTRY 2429.—SPECIAL PRODUCT SAWMILLS, N.E.C.											
Establishments.....number..	541	220	114	100	80	22	5	-	-	-	-
All employees:											
Total.....do....	7,164	454	777	1,386	2,504	1,414	629	-	-	-	-
Payroll.....$1,000..	25,223	1,214	2,340	4,332	8,665	5,541	3,131	-	-	-	-
Value added, adjusted.....do....	41,355	2,207	4,730	7,611	14,450	7,756	4,601	-	-	-	-
Value of shipments.....do....	96,032	5,148	11,524	18,889	29,865	21,444	9,162	-	-	-	-
Capital expenditures, new...do....	1,968	123	218	377	723	406	121	-	-	-	-
INDUSTRY 2431.—MILLWORK PLANTS											
Establishments.....number..	3,770	1,869	603	550	463	172	87	19	6	1	-
All employees:											
Total.....do....	65,283	3,401	3,989	7,367	14,372	11,760	12,865	6,606	4,923	(D)	-
Payroll.....$1,000..	320,817	15,411	20,344	37,593	73,050	59,382	61,726	28,386	24,925	(D)	-
Value added, adjusted.....do....	524,041	29,027	33,901	60,405	119,053	96,968	94,156	45,987	44,544	(D)	-
Value of shipments.....do....	1,270,613	67,648	73,854	135,123	290,718	251,404	251,683	98,348	101,835	(D)	-
Capital expenditures, new...do....	20,935	1,708	1,421	2,393	4,240	3,728	4,835	1,177	1,433	(D)	-
INDUSTRY 2432.—VENEER AND PLYWOOD PLANTS											
Establishments.....number..	641	62	32	44	135	156	144	52	16	-	-
All employees:											
Total.....do....	66,155	105	216	632	4,757	11,260	22,410	16,671	10,104	-	-
Payroll.....$1,000..	324,746	688	1,017	2,540	17,243	46,998	109,517	95,075	51,668	-	-
Value added, adjusted.....do....	559,211	1,945	1,723	4,832	30,160	89,072	188,978	150,224	92,277	-	-
Value of shipments.....do....	1,339,630	3,917	4,106	12,056	75,502	227,535	462,405	349,418	204,691	-	-
Capital expenditures, new...do....	41,887	95,906	185	1,273	2,767	4,407	10,620	10,399	6,330	-	-
INDUSTRY 2433.—PREFABRICATED WOOD PRODUCTS											
Establishments.....number..	559	143	101	112	121	55	21	5	1	-	-
All employees:											
Total.....do....	15,806	293	688	1,568	3,691	3,698	3,196	2,672	(D)	-	-
Payroll.....$1,000..	81,079	1,361	3,088	7,954	18,430	19,391	15,797	15,058	(D)	-	-
Value added, adjusted.....do....	156,593	2,821	5,111	17,072	32,705	38,392	30,062	30,430	(D)	-	-
Value of shipments.....do....	403,309	7,354	14,103	43,166	87,171	90,802	78,430	82,283	(D)	-	-
Capital expenditures, new...do....	7,741	324	629	1,068	2,190	1,420	1,144	966	(D)	-	-
INDUSTRY 2441.—NAILED WOODEN BOXES AND SHOOK											
Establishments.....number..	663	249	107	124	110	50	17	6	-	-	-
All employees:											
Total.....do....	14,483	485	752	1,763	3,336	3,552	2,385	2,210	-	-	-
Payroll.....$1,000..	55,858	1,617	2,886	6,521	12,740	13,222	8,749	10,123	-	-	-
Value added, adjusted.....do....	85,046	3,512	4,650	10,319	22,231	18,752	11,792	13,790	-	-	-
Value of shipments.....do....	206,020	8,004	12,105	25,274	53,089	44,365	26,262	36,921	-	-	-
Capital expenditures, new...do....	6,014	41,404	177	449	802	865	520	1,797	-	-	-
INDUSTRY 2442.—WIREBOUND BOXES AND CRATES											
Establishments.....number..	117	30	5	12	14	18	26	12	-	-	-
All employees:											
Total.....do....	9,893	48	34	176	436	1,357	3,831	4,011	-	-	-
Payroll.....$1,000..	32,717	179	122	642	1,817	5,114	12,411	12,432	-	-	-
Value added, adjusted.....do....	55,606	366	260	930	3,811	8,283	20,941	21,015	-	-	-
Value of shipments.....do....	114,669	739	570	1,767	6,944	18,065	44,954	41,630	-	-	-
Capital expenditures, new...do....	1,565	14	6	37	120	161	568	659	-	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2443.—VENEER AND PLYWOOD CONTAINERS											
Establishments.....number..	99	23	18	14	17	16	8	3	-	-	-
All employees:											
Total.....do....	3,953	38	118	186	567	1,045	1,065	934	-	-	-
Payroll.....$1,000..	11,649	136	355	565	1,677	3,118	3,018	2,780	-	-	-
Value added, adjusted.....do....	16,086	209	666	938	2,241	4,388	4,117	3,527	-	-	-
Value of shipments.....do....	27,923	373	1,087	1,666	4,174	7,741	6,651	6,231	-	-	-
Capital expenditures, new...do....	336	7	17	24	44	95	123	26	-	-	-
INDUSTRY 2445.—COOPERAGE											
Establishments.....number..	107	49	13	22	10	4	8	1	-	-	-
All employees:											
Total.....do....	2,616	101	93	284	298	249	1,591	(D)	-	-	-
Payroll.....$1,000..	11,580	341	308	1,160	1,149	961	7,661	(D)	-	-	-
Value added, adjusted.....do....	17,494	763	581	2,042	1,499	1,445	11,164	(D)	-	-	-
Value of shipments.....do....	52,917	2,461	1,688	4,918	5,043	5,539	33,268	(D)	-	-	-
Capital expenditures, new...do....	616	31	13	41	50	38	443	(D)	-	-	-
INDUSTRY 2491.—WOOD PRESERVING											
Establishments.....number..	338	79	41	61	75	56	26	-	-	-	-
All employees:											
Total.....do....	11,178	152	263	844	2,463	3,958	3,498	-	-	-	-
Payroll.....$1,000..	45,257	560	819	3,070	10,342	16,781	13,685	-	-	-	-
Value added, adjusted.....do....	93,265	1,002	1,494	5,800	23,815	34,060	27,094	-	-	-	-
Value of shipments.....do....	247,294	2,829	4,961	17,661	58,637	92,972	70,234	-	-	-	-
Capital expenditures, new...do....	5,548	112	167	300	1,123	2,103	1,743	-	-	-	-
INDUSTRY 2499.—WOOD PRODUCTS, N.E.C.											
Establishments.....number..	2,896	1,232	484	478	430	191	64	14	2	-	1
All employees:											
Total.....do....	57,981	2,164	3,231	6,559	13,468	13,244	9,829	5,210	4,276	-	(D)
Payroll.....$1,000..	237,442	7,538	11,936	24,139	50,219	51,546	40,428	26,246	25,390	-	(D)
Value added, adjusted.....do....	420,283	13,987	20,839	40,697	83,101	89,983	70,849	50,385	50,442	-	(D)
Value of shipments.....do....	785,367	29,153	40,632	83,587	162,476	168,422	134,812	90,366	75,919	-	(D)
Capital expenditures, new...do....	32,940	[7]1,282	1,182	2,064	4,094	6,005	6,887	11,426	(D)	-	(D)
INDUSTRY 2511.—WOOD FURNITURE, NOT UPHOLSTERED											
Establishments.....number..	3,063	1,219	424	428	409	242	220	75	37	8	1
All employees:											
Total.....do....	140,982	2,160	2,817	5,886	12,868	17,355	35,166	25,948	24,188	14,594	(D)
Payroll.....$1,000..	574,614	9,332	12,069	24,194	52,078	72,362	142,445	102,544	105,263	54,327	(D)
Value added, adjusted.....do....	993,200	19,355	20,704	42,169	83,500	120,918	233,940	183,209	183,982	105,423	(D)
Value of shipments.....do....	1,857,992	39,390	39,127	79,498	163,354	229,426	438,394	352,701	341,068	175,034	(D)
Capital expenditures, new...do....	40,409	[11]2,702	1,077	1,779	3,239	3,347	6,786	6,539	8,772	6,168	(D)
INDUSTRY 2512.—WOOD FURNITURE, UPHOLSTERED											
Establishments.....number..	1,785	490	261	321	387	160	117	37	11	1	-
All employees:											
Total.....do....	67,850	925	1,701	4,540	12,278	11,010	17,823	11,680	7,893	(D)	-
Payroll.....$1,000..	291,587	3,837	6,927	18,998	53,140	48,597	76,093	49,891	34,104	(D)	-
Value added, adjusted.....do....	506,727	7,740	11,588	30,652	85,658	81,303	134,541	89,905	65,340	(D)	-
Value of shipments.....do....	983,204	14,142	23,175	58,863	168,315	154,077	266,999	173,099	124,534	(D)	-
Capital expenditures, new...do....	13,653	371	514	976	2,539	1,425	2,609	2,742	2,477	(D)	-
INDUSTRY 2514.—METAL HOUSEHOLD FURNITURE											
Establishments.....number..	517	129	66	78	99	63	51	27	4	-	-
All employees:											
Total.....do....	29,346	233	433	1,083	3,202	4,304	8,104	9,264	2,723	-	-
Payroll.....$1,000..	128,819	1,048	1,908	4,600	12,788	18,984	34,755	40,954	13,782	-	-
Value added, adjusted.....do....	247,003	2,696	3,807	9,039	25,952	34,493	65,316	79,839	25,861	-	-
Value of shipments.....do....	524,305	5,860	7,734	18,724	52,518	79,382	144,692	166,029	49,366	-	-
Capital expenditures, new...do....	6,840	[11]165	112	187	606	845	2,363	2,092	470	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2515.—MATTRESSES AND BEDSPRINGS											
Establishments.....number..	1,120	391	188	201	203	86	36	9	4	2	-
All employees:											
Total.....do....	30,061	743	1,267	2,780	6,238	5,741	5,307	7,985	(D)	(D)	-
Payroll.....$1,000..	146,287	2,574	4,866	12,027	28,355	28,212	27,431	42,822	(D)	(D)	-
Value added, adjusted.....do....	285,510	5,317	9,827	22,566	55,878	57,299	54,146	80,477	(D)	(D)	-
Value of shipments.....do....	641,008	13,032	25,397	56,660	134,885	131,347	119,857	159,830	(D)	(D)	-
Capital expenditures, new...do....	7,310	249	411	679	1,557	973	1,992	1,449	(D)	(D)	-
INDUSTRY 2519.—HOUSEHOLD FURNITURE, N.E.C.											
Establishments.....number..	75	21	13	11	17	6	7	-	-	-	-
All employees:											
Total.....do....	2,054	27	86	149	516	347	929	-	-	-	-
Payroll.....$1,000..	8,384	109	367	682	2,316	1,273	3,637	-	-	-	-
Value added, adjusted.....do....	15,054	217	560	1,146	4,228	1,672	7,231	-	-	-	-
Value of shipments.....do....	28,937	432	907	2,364	9,528	3,717	11,989	-	-	-	-
Capital expenditures, new...do....	630	7	19	23	194	108	279	-	-	-	-
INDUSTRY 2521.—WOOD OFFICE FURNITURE											
Establishments.....number..	138	35	32	13	27	9	16	6	-	-	-
All employees:											
Total.....do....	6,516	72	215	182	809	556	2,552	2,130	-	-	-
Payroll.....$1,000..	30,560	378	1,179	885	3,995	2,993	11,190	9,940	-	-	-
Value added, adjusted.....do....	57,018	661	2,113	1,288	6,703	4,968	22,562	18,723	-	-	-
Value of shipments.....do....	101,514	1,171	3,831	2,552	12,037	8,384	40,471	33,068	-	-	-
Capital expenditures, new...do....	1,511	24	49	25	124	74	356	859	-	-	-
INDUSTRY 2522.—METAL OFFICE FURNITURE											
Establishments.....number..	170	32	14	17	32	30	22	13	6	4	-
All employees:											
Total.....do....	19,928	65	103	231	1,031	2,138	3,391	4,237	3,941	4,791	-
Payroll.....$1,000..	112,080	263	499	1,100	4,806	10,424	18,008	23,294	21,273	32,413	-
Value added, adjusted.....do....	228,329	563	850	1,903	9,424	18,961	34,058	51,518	46,572	64,480	-
Value of shipments.....do....	389,965	1,070	1,439	3,943	16,027	36,214	62,398	85,288	71,643	111,943	-
Capital expenditures, new...do....	14,199	42	28	29	211	3,915	2,318	2,170	1,363	4,123	-
INDUSTRY 2531.—PUBLIC BUILDING FURNITURE											
Establishments.....number..	429	132	74	59	81	39	33	6	4	1	-
All employees:											
Total.....do....	16,949	250	501	826	2,616	2,709	4,698	1,834	3,515	(D)	-
Payroll.....$1,000..	83,373	1,043	2,421	3,674	12,259	12,076	22,495	9,589	19,816	(D)	-
Value added, adjusted.....do....	141,756	2,179	4,304	6,115	19,611	20,156	35,984	18,274	35,133	(D)	-
Value of shipments.....do....	268,563	4,440	8,408	11,593	37,845	41,234	69,551	31,746	63,746	(D)	-
Capital expenditures, new...do....	4,369	127	199	224	780	714	988	479	858	(D)	-
INDUSTRY 2541.—WOOD PARTITIONS AND FIXTURES											
Establishments.....number..	1,594	655	303	289	239	82	24	2	-	-	-
All employees:											
Total.....do....	24,343	1,171	2,057	3,902	7,125	5,687	4,401	(D)	-	-	-
Payroll.....$1,000..	142,521	6,559	10,910	21,683	43,484	34,238	25,647	(D)	-	-	-
Value added, adjusted.....do....	219,194	12,223	19,226	35,046	65,846	52,937	33,916	(D)	-	-	-
Value of shipments.....do....	389,609	23,135	33,483	63,239	117,477	93,732	58,543	(D)	-	-	-
Capital expenditures, new...do....	6,766	534	656	1,125	2,118	1,842	491	(D)	-	-	-
INDUSTRY 2542.—METAL PARTITIONS AND FIXTURES											
Establishments.....number..	513	173	75	98	74	50	29	7	6	1	-
All employees:											
Total.....do....	20,290	287	497	1,349	2,335	3,570	4,739	2,298	5,215	(D)	-
Payroll.....$1,000..	119,301	1,786	3,171	7,093	13,143	20,325	28,115	13,287	32,381	(D)	-
Value added, adjusted.....do....	214,301	3,388	5,524	12,337	21,704	34,693	51,982	26,292	58,381	(D)	-
Value of shipments.....do....	377,843	6,177	10,145	22,601	40,690	63,485	93,776	43,294	97,675	(D)	-
Capital expenditures, new...do....	8,520	233	216	456	501	1,501	2,693	573	2,347	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963--Continued

Item	Establishments, total	Establishments with an average of– 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2591.—VENETIAN BLINDS AND SHADES											
Establishments.....number..	718	453	126	79	38	3	10	6	1	2	-
All employees:											
Total.....do....	10,689	805	836	1,041	1,119	234	6,654	(D)	(D)	(D)	-
Payroll.....$1,000..	49,590	2,790	3,505	4,521	4,933	1,377	32,464	(D)	(D)	(D)	-
Value added, adjusted.....do....	94,324	6,175	6,695	8,079	7,807	2,469	63,099	(D)	(D)	(D)	-
Value of shipments.....do....	199,552	13,587	14,794	18,398	17,968	4,011	130,794	(D)	(D)	(D)	-
Capital expenditures, new...do....	4,282	201	144	161	160	20	3,596	(D)	(D)	(D)	-
INDUSTRY 2599.—FURNITURE AND FIXTURES, N.E.C.											
Establishments.....number..	356	136	61	68	55	24	8	4	-	-	-
All employees:											
Total.....do....	7,540	216	415	967	1,710	1,633	1,254	1,345	-	-	-
Payroll.....$1,000..	39,591	1,010	2,040	4,844	9,873	7,660	7,030	7,134	-	-	-
Value added, adjusted.....do....	65,871	2,228	3,479	9,049	16,352	12,492	11,020	11,251	-	-	-
Value of shipments.....do....	121,572	4,165	6,837	16,077	31,870	25,779	18,631	18,213	-	-	-
Capital expenditures, new...do....	1,691	60	77	190	386	432	244	302	-	-	-
INDUSTRY 2611.—PULP MILLS											
Establishments.....number..	45	2	2	1	6	7	5	11	8	3	-
All employees:											
Total.....do....	15,123	31	(D)	(D)	215	454	749	4,442	5,511	3,721	-
Payroll.....$1,000..	107,359	197	(D)	(D)	1,260	2,848	4,921	31,121	40,414	26,598	-
Value added, adjusted.....do....	295,804	398	(D)	(D)	2,945	5,471	11,754	94,132	114,524	66,580	-
Value of shipments.....do....	609,050	1,550	(D)	(D)	7,744	14,148	27,934	187,218	232,082	138,374	-
Capital expenditures, new...do....	38,899	[17]8,869	(D)	(D)	471	988	436	4,698	13,145	10,292	-
INDUSTRY 2621.—PAPER MILLS, EXCEPT BUILDING											
Establishments.....number..	325	4	2	6	35	48	85	56	56	32	1
All employees:											
Total.....do....	129,848	18	(D)	103	1,172	3,543	13,684	19,988	38,703	52,637	(D)
Payroll.....$1,000..	877,942	164	(D)	518	6,858	22,493	87,970	136,246	262,257	361,436	(D)
Value added, adjusted.....do....	1,857,203	125	(D)	755	15,299	45,501	176,344	265,045	597,841	756,293	(D)
Value of shipments.....do....	3,824,915	574	(D)	2,011	39,802	105,083	430,107	571,635	1,267,913	1,407,790	(D)
Capital expenditures, new...do....	232,779	[12]131	(D)	59	1,128	4,491	17,490	33,125	66,140	110,215	(D)
Subindustry 262112.—Paper mills, integrated with a pulp mill facility											
Establishments.....number..	102	-	-	-	-	3	9	21	39	29	1
All employees:											
Total.....do....	85,108	-	-	-	-	230	1,375	8,032	27,570	47,901	(D)
Payroll.....$1,000..	580,932	-	-	-	-	1,473	9,085	51,848	189,534	328,992	(D)
Value added, adjusted.....do....	1,254,955	-	-	-	-	3,415	21,451	98,476	452,269	679,344	(D)
Value of shipments.....do....	2,434,908	-	-	-	-	9,343	49,416	209,885	891,025	1,275,239	(D)
Capital expenditures, new...do....	166,479	-	-	-	-	1,631	(D)	12,258	49,522	103,062	(D)
Subindustry 262114.—Paper mills, not integrated with a pulp mill facility											
Establishments.....number..	223	4	2	6	35	45	76	35	17	3	-
All employees:											
Total.....do....	44,740	18	(D)	103	1,172	3,313	12,309	11,956	11,133	4,736	-
Payroll.....$1,000..	297,010	164	(D)	518	6,858	21,020	78,885	84,398	72,723	32,444	-
Value added, adjusted.....do....	602,248	125	(D)	755	15,299	42,086	154,893	166,569	145,572	76,949	-
Value of shipments.....do....	1,390,007	574	(D)	2,011	39,802	95,740	380,691	361,750	376,888	132,551	-
Capital expenditures, new...do....	66,300	[12]131	(D)	59	1,128	20,350	(D)	20,867	16,618	7,147	-
INDUSTRY 2631.—PAPERBOARD MILLS											
Establishments.....number..	271	4	3	5	41	55	95	36	22	9	1
All employees:											
Total.....do....	63,398	24	(D)	79	1,496	4,011	14,493	12,127	14,618	16,550	(D)
Payroll.....$1,000..	429,017	128	(D)	428	8,643	26,192	95,202	87,383	101,955	109,086	(D)
Value added, adjusted.....do....	1,186,224	234	(D)	800	18,342	54,031	229,538	211,372	334,780	337,127	(D)
Value of shipments.....do....	2,315,954	483	(D)	1,917	36,750	119,158	474,142	426,078	649,712	607,714	(D)
Capital expenditures, new...do....	159,528	[8]21,278	(D)	(D)	(D)	(D)	51,338	17,824	35,084	34,004	(D)

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963--Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
Subindustry 263112.—Paperboard mills, integrated with a pulp mill facility											
Establishments.....number..	63	-	-	-	-	-	21	13	19	9	1
All employees:											
Total.....do....	37,238	-	-	-	-	-	3,290	4,530	12,868	16,550	(D)
Payroll.....$1,000..	253,938	-	-	-	-	-	23,311	32,168	89,373	109,086	(D)
Value added, adjusted.....do....	821,653	-	-	-	-	-	76,876	97,461	310,189	337,127	(D)
Value of shipments.....do....	1,517,174	-	-	-	-	-	140,366	181,575	587,519	607,714	(D)
Capital expenditures, new...do....	114,626	-	-	-	-	-	36,674	10,383	33,565	34,004	(D)
Subindustry 263114.—Paperboard mills, not integrated with a pulp mill facility											
Establishments.....number..	208	3	3	5	41	55	75	23	3	-	-
All employees:											
Total.....do....	26,160	24	(D)	79	1,496	4,011	11,203	7,597	1,750	-	-
Payroll.....$1,000..	175,079	127	(D)	428	8,643	26,192	71,892	55,215	12,582	-	-
Value added, adjusted.....do....	364,571	234	(D)	800	18,342	54,031	152,662	113,911	24,591	-	-
Value of shipments.....do....	798,780	483	(D)	1,917	36,750	119,158	333,776	244,503	62,193	-	-
Capital expenditures, new...do....	44,902	[8]21,278	(D)	(D)	(D)	(D)	14,664	7,441	1,519	-	-
INDUSTRY 2661.—BUILDING PAPER AND BOARD MILLS											
Establishments.....number..	83	2	1	3	24	23	18	8	2	2	-
All employees:											
Total.....do....	11,874	60	(D)	(D)	811	1,549	2,918	2,700	3,836	(D)	-
Payroll.....$1,000..	69,637	313	(D)	(D)	4,246	8,875	16,935	16,303	22,965	(D)	-
Value added, adjusted.....do....	153,103	582	(D)	(D)	7,885	16,085	38,700	32,695	57,156	(D)	-
Value of shipments.....do....	281,564	1,184	(D)	(D)	16,623	34,999	78,375	59,354	91,029	(D)	-
Capital expenditures, new...do....	8,065	[18]1,629	(D)	(D)	(D)	555	1,814	1,977	2,090	(D)	-
Subindustry 266112.—Building paper and board mills, integrated with a pulp mill facility											
Establishments.....number..	50	-	-	1	7	16	15	7	2	2	-
All employees:											
Total.....do....	9,907	-	-	255	(D)	1,047	4,769	(D)	3,836	(D)	-
Payroll.....$1,000..	58,713	-	-	1,376	(D)	6,129	28,243	(D)	22,965	(D)	-
Value added, adjusted.....do....	130,633	-	-	2,882	(D)	11,109	59,486	(D)	57,156	(D)	-
Value of shipments.....do....	237,591	-	-	5,726	(D)	22,834	118,002	(D)	91,029	(D)	-
Capital expenditures, new...do....	6,157	-	-	619	(D)	(D)	3,448	(D)	2,090	(D)	-
Subindustry 266114.—Building paper and board mills, not integrated with a pulp mill facility											
Establishments.....number..	33	2	1	2	17	7	3	1	-	-	-
All employees:											
Total.....do....	1,967	616	(D)	(D)	(D)	502	849	(D)	-	-	-
Payroll.....$1,000..	10,924	3,183	(D)	(D)	(D)	2,746	4,995	(D)	-	-	-
Value added, adjusted.....do....	22,470	5,585	(D)	(D)	(D)	4,976	11,909	(D)	-	-	-
Value of shipments.....do....	43,973	12,080	(D)	(D)	(D)	12,165	19,727	(D)	-	-	-
Capital expenditures, new...do....	1,908	1,565	(D)	(D)	(D)	(D)	343	(D)	-	-	-
INDUSTRY 2641.—PAPER COATING AND GLAZING											
Establishments.....number..	387	83	56	67	65	36	45	20	12	3	-
All employees:											
Total.....do....	31,983	156	379	937	2,144	2,697	7,202	6,449	8,321	3,698	-
Payroll.....$1,000..	200,794	829	2,012	5,167	12,621	15,970	44,396	41,385	57,495	20,919	-
Value added, adjusted.....do....	457,367	2,084	10,372	11,080	27,046	38,320	93,131	91,756	119,983	63,595	-
Value of shipments.....do....	1,161,604	5,328	16,755	26,331	76,909	103,570	296,299	233,805	252,351	150,266	-
Capital expenditures, new...do....	45,602	[12]249	289	399	1,519	2,425	7,951	8,777	21,625	2,168	
INDUSTRY 2642.—ENVELOPES											
Establishments.....number..	230	23	13	21	49	50	57	14	3	-	-
All employees:											
Total.....do....	20,728	52	92	278	1,547	3,446	9,005	4,556	1,752	-	-
Payroll.....$1,000..	114,860	226	368	1,282	8,126	18,780	50,621	25,868	9,589	-	-
Value added, adjusted.....do....	188,963	390	606	1,901	13,825	33,035	85,298	40,541	13,367	-	-
Value of shipments.....do....	363,250	789	1,242	3,451	27,153	62,603	157,918	78,798	31,286	-	-
Capital expenditures, new...do....	8,118	22	46	154	818	1,351	4,043	1,311	373	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2643.—BAGS, EXCEPT TEXTILE BAGS											
Establishments.....number..	586	119	82	88	112	60	90	22	9	4	-
All employees:											
Total.....do....	42,343	229	553	1,211	3,593	4,125	14,502	7,464	5,439	5,227	-
Payroll.....$1,000..	219,137	1,028	2,516	5,695	17,102	20,107	72,286	36,706	33,156	30,531	-
Value added, adjusted.....do....	369,685	2,268	5,796	11,445	34,557	39,250	133,160	64,556	47,293	31,360	-
Value of shipments.....do....	1,061,715	6,829	15,383	27,455	86,214	108,019	383,300	177,326	139,116	118,073	-
Capital expenditures, new...do....	26,671	[19]365	647	1,099	4,142	3,295	7,142	3,343	4,361	2,277	-
INDUSTRY 2644.—WALLPAPER											
Establishments.....number..	79	20	13	15	17	8	6	-	-	-	-
All employees:											
Total.....do....	2,194	45	86	198	509	594	762	-	-	-	-
Payroll.....$1,000..	11,866	236	462	1,249	2,531	3,067	4,321	-	-	-	-
Value added, adjusted.....do....	20,907	401	903	2,804	4,464	5,268	7,067	-	-	-	-
Value of shipments.....do....	36,548	600	1,296	4,490	8,612	8,272	13,278	-	-	-	-
Capital expenditures, new...do....	359	6	8	54	84	68	139	-	-	-	-
INDUSTRY 2645.—DIE CUT PAPER AND BOARD											
Establishments.....number..	425	110	72	87	82	40	26	6	2	-	-
All employees:											
Total.....do....	15,135	203	494	1,214	2,416	2,670	3,879	4,259	(D)	-	-
Payroll.....$1,000..	83,373	804	2,227	5,743	12,760	14,201	20,922	26,716	(D)	-	-
Value added, adjusted.....do....	183,185	3,703	6,085	12,284	25,427	29,942	41,624	64,120	(D)	-	-
Value of shipments.....do....	378,332	6,347	13,745	28,667	63,021	64,301	88,579	113,672	(D)	-	-
Capital expenditures, new...do....	7,731	[12]152	251	606	1,354	1,165	1,777	2,426	(D)	-	-
INDUSTRY 2646.—PRESSED AND MOLDED PULP GOODS											
Establishments.....number..	59	7	5	5	15	13	6	7	1	-	-
All employees:											
Total.....do....	5,720	9	30	78	435	905	903	3,360	(D)	-	-
Payroll.....$1,000..	32,862	61	148	377	2,303	4,940	5,730	19,303	(D)	-	-
Value added, adjusted.....do....	70,006	116	302	743	4,295	11,336	11,725	41,489	(D)	-	-
Value of shipments.....do....	110,135	169	537	1,213	7,287	17,828	18,113	64,988	(D)	-	-
Capital expenditures, new...do....	11,558	47	130	(D)	313	7,968	(D)	3,100	(D)	-	-
INDUSTRY 2647.—SANITARY PAPER PRODUCTS											
Establishments.....number..	119	12	11	19	18	13	23	13	7	3	-
All employees:											
Total.....do....	19,108	26	72	248	532	884	3,470	4,709	5,505	3,662	-
Payroll.....$1,000..	112,539	103	374	1,308	2,799	4,363	18,897	27,412	32,992	24,291	-
Value added, adjusted.....do....	369,711	300	742	5,765	9,931	10,650	75,066	94,033	102,872	70,352	-
Value of shipments.....do....	983,019	707	2,278	22,052	46,799	27,059	178,498	260,243	274,033	171,350	-
Capital expenditures, new...do....	16,628	[4]2,499	(D)	(D)	353	939	2,242	4,631	3,410	2,554	-
INDUSTRY 2649.—CONVERTED PAPER PRODUCTS, N.E.C.											
Establishments.....number..	610	178	83	110	113	55	50	14	6	-	1
All employees:											
Total.....do....	29,514	339	559	1,502	3,410	3,774	8,035	4,830	7,065	-	(D)
Payroll.....$1,000..	141,902	1,446	2,591	6,603	16,060	17,856	40,929	24,834	31,583	-	(D)
Value added, adjusted.....do....	302,546	3,898	5,635	14,815	37,436	40,070	79,536	49,724	71,432	-	(D)
Value of shipments.....do....	591,750	7,670	11,023	29,414	79,351	79,793	169,273	102,180	113,046	-	(D)
Capital expenditures, new...do....	11,853	[20]942	421	640	1,208	1,511	3,173	1,949	2,009	-	(D)
INDUSTRY 2651.—FOLDING PAPERBOARD BOXES											
Establishments.....number..	636	71	63	84	152	118	104	34	8	2	-
All employees:											
Total.....do....	51,291	166	421	1,227	4,975	8,222	16,529	11,861	7,890	(D)	-
Payroll.....$1,000..	288,841	738	1,928	6,122	23,989	43,082	92,177	70,639	50,166	(D)	-
Value added, adjusted.....do....	476,866	1,293	3,228	12,054	40,992	71,490	153,638	122,666	71,505	(D)	-
Value of shipments.....do....	1,081,147	2,598	7,212	25,959	87,338	148,946	326,664	285,046	197,384	(D)	-
Capital expenditures, new...do....	36,008	84	189	452	2,518	2,265	13,450	11,056	5,994	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2652.—SET-UP PAPERBOARD BOXES											
Establishments.....number..	503	56	51	79	186	88	40	2	1	-	-
All employees:											
Total.....do....	20,459	121	367	1,149	5,706	6,165	5,659	1,292	(D)	-	-
Payroll.....$1,000..	82,229	448	1,363	3,931	21,452	24,544	24,366	6,125	(D)	-	-
Value added, adjusted.....do....	131,688	1,015	2,626	6,805	34,135	40,148	37,085	9,874	(D)	-	-
Value of shipments.....do....	225,794	1,701	4,018	11,420	59,681	71,510	62,604	14,860	(D)	-	-
Capital expenditures, new...do....	5,049	87	166	295	1,302	1,678	1,199	322	(D)	-	-
INDUSTRY 2653.—CORRUGATED SHIPPING CONTAINERS											
Establishments.....number..	923	97	69	106	188	126	269	64	4	-	-
All employees:											
Total.....do....	83,229	158	470	1,554	6,009	9,239	42,939	20,718	2,142	-	-
Payroll.....$1,000..	485,594	1,423	2,431	7,527	30,485	50,772	252,110	127,443	13,403	-	-
Value added, adjusted.....do....	804,012	3,021	4,801	13,949	52,795	87,539	419,994	199,334	22,579	-	-
Value of shipments.....do....	2,166,137	7,594	11,836	35,965	147,869	231,833	1,135,455	534,649	60,936	-	-
Capital expenditures, new...do....	54,094	[12]1,258	522	951	6,021	10,241	24,489	9,914	698	-	-
INDUSTRY 2654.—SANITARY FOOD CONTAINERS											
Establishments.....number..	186	12	12	18	28	41	38	22	10	5	-
All employees:											
Total.....do....	32,879	20	76	259	887	3,185	5,233	7,452	6,774	8,993	-
Payroll.....$1,000..	182,745	106	347	1,277	4,501	15,460	28,793	40,672	39,340	52,249	-
Value added, adjusted.....do....	402,211	228	694	2,867	9,618	38,514	58,117	90,206	104,080	97,887	-
Value of shipments.....do....	905,931	904	1,547	7,589	27,471	130,637	171,085	189,228	207,200	170,270	-
Capital expenditures, new...do....	37,901	[19]301	165	580	990	5,945	7,023	5,678	7,300	9,919	-
INDUSTRY 2655.—FIBER CANS, TUBES, DRUMS, ETC.											
Establishments.....number..	246	40	30	39	57	49	25	5	-	1	-
All employees:											
Total.....do....	13,188	74	218	557	1,904	3,519	3,537	3,379	-	(D)	-
Payroll.....$1,000..	67,488	363	1,025	2,677	9,052	16,346	18,434	19,591	-	(D)	-
Value added, adjusted.....do....	126,196	637	1,751	5,464	19,531	28,610	38,532	31,671	-	(D)	-
Value of shipments.....do....	260,257	1,303	3,370	12,032	46,175	62,035	77,845	57,497	-	(D)	-
Capital expenditures, new...do....	7,689	62	92	427	1,901	2,009	1,291	1,907	-	(D)	-
INDUSTRY 2711.—NEWSPAPERS											
Establishments.....number..	8,331	3,514	1,758	1,194	973	373	305	110	55	41	8
All employees:											
Total.....do....	306,439	7,564	11,715	15,918	29,637	25,495	46,710	38,941	39,786	60,651	30,022
Payroll.....$1,000..	1,784,570	24,835	43,844	64,585	133,214	131,627	261,578	231,240	260,183	422,541	210,923
Value added, adjusted.....do....	3,201,872	54,620	74,504	107,732	226,433	235,048	478,277	447,909	490,320	719,127	367,902
Value of shipments.....do....	4,483,592	87,824	115,091	143,593	283,099	290,848	602,607	596,581	695,220	1,085,367	583,362
Capital expenditures, new...do....	135,198	[11]5,963	7,069	6,552	12,494	12,003	20,832	12,445	20,508	25,408	11,924
Subindustry 2711-11.—Newspapers, Daily											
Establishments.....number..	1,560	18	26	184	534	310	278	106	55	41	8
All employees:											
Total.....do....	252,492	37	193	2,793	17,363	21,448	42,656	37,543	39,786	60,651	30,022
Payroll.....$1,000..	1,561,750	153	901	12,085	80,579	112,357	240,621	221,407	260,183	422,541	210,923
Value added, adjusted.....do....	2,818,924	1,249	1,738	20,794	137,102	203,363	445,754	431,575	490,320	719,127	367,902
Value of shipments.....do....	3,932,644	1,342	2,739	25,356	164,723	247,894	555,154	571,487	695,220	1,085,367	583,362
Capital expenditures, new...do....	107,638	21	99	1,011	7,416	10,372	19,137	11,742	20,508	25,408	11,924
Subindustry 2711-13.—Newspapers, Weekly and Other											
Establishments.....number..	6,771	3,496	1,732	1,010	439	63	27	4	-	-	-
All employees:											
Total.....do....	53,947	7,527	11,522	13,125	12,274	4,047	4,054	1,398	-	-	-
Payroll.....$1,000..	222,820	24,682	42,943	52,500	52,635	19,270	20,957	9,833	-	-	-
Value added, adjusted.....do....	382,948	53,371	72,766	86,938	89,331	31,685	32,523	16,334	-	-	-
Value of shipments.....do....	550,948	86,482	112,352	118,237	118,376	42,954	47,453	25,094	-	-	-
Capital expenditures, new...do....	27,560	[11]5,942	6,970	5,541	5,078	1,631	1,695	703	-	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
	INDUSTRY 2721.—PERIODICALS										
Establishments.....number..	2,630	1,470	445	313	212	88	59	17	16	8	2
All employees:											
Total.....do....	67,730	2,453	2,926	4,151	6,370	6,235	9,380	5,775	10,602	19,838	(D)
Payroll.....$1,000..	461,124	13,318	17,097	25,354	41,024	41,238	64,307	40,709	70,721	147,356	(D)
Value added, adjusted.....do....	1,349,030	31,646	40,523	57,139	104,069	89,078	188,974	107,728	240,327	489,546	(D)
Value of shipments.....do....	2,295,716	59,163	67,778	88,598	165,353	131,169	293,541	178,498	458,872	852,744	(D)
Capital expenditures, new...do....	33,784	938	819	964	1,708	1,933	4,488	2,833	5,988	14,113	(D)
	Subindustry 2721-11.—Periodicals, Publishing Only										
Establishments.....number..	2,310	1,330	385	281	179	61	43	14	11	5	1
All employees:											
Total.....do....	49,436	2,262	2,508	3,721	5,303	4,200	6,686	4,978	7,664	12,114	(D)
Payroll.....$1,000..	351,995	12,092	15,109	23,295	35,283	29,240	49,242	36,235	54,679	96,820	(D)
Value added, adjusted.....do....	1,097,071	29,209	37,181	53,608	91,280	65,175	159,581	100,402	205,988	354,647	(D)
Value of shipments.....do....	1,929,420	55,322	63,087	83,745	147,937	101,405	255,485	167,869	413,814	640,756	(D)
Capital expenditures, new...do....	27,619	841	727	877	1,194	1,205	2,334	2,627	4,317	13,497	(D)
	Subindustry 2721-13.—Periodicals, Publishing and Printing										
Establishments.....number..	320	140	60	32	33	27	16	3	5	3	1
All employees:											
Total.....do....	18,294	191	418	430	1,067	2,035	2,694	797	2,938	7,724	(D)
Payroll.....$1,000..	109,129	1,226	1,988	2,059	5,741	11,998	15,065	4,474	16,042	50,536	(D)
Value added, adjusted.....do....	251,959	2,437	3,342	3,531	12,789	23,903	29,393	7,326	34,339	134,899	(D)
Value of shipments.....do....	366,296	3,841	4,691	4,853	17,416	29,764	38,056	10,629	45,058	211,988	(D)
Capital expenditures, new...do....	6,165	97	92	87	514	728	2,154	206	1,671	616	(D)
	INDUSTRY 2731.—BOOKS, PUBLISHING AND PRINTING										
Establishments.....number..	993	471	152	114	117	48	53	19	10	8	1
All employees:											
Total.....do....	46,812	792	1,002	1,539	3,624	3,533	8,135	6,837	7,025	14,325	(D)
Payroll.....$1,000..	280,664	3,741	5,241	9,328	20,819	21,413	51,031	42,044	48,536	78,511	(D)
Value added, adjusted.....do....	995,736	17,761	18,510	30,410	60,519	76,495	222,279	112,015	224,634	233,113	(D)
Value of shipments.....do....	1,534,632	33,462	32,651	49,686	129,355	124,660	329,433	170,237	310,762	354,386	(D)
Capital expenditures, new...do....	25,426	591	397	770	789	2,342	4,459	6,094	7,746	2,238	(D)
	Subindustry 2731-11.—Books, Publishing Only										
Establishments.....number..	790	390	123	89	92	34	40	9	6	6	1
All employees:											
Total.....do....	32,836	648	803	1,181	2,805	2,511	6,237	3,412	15,239	(D)	(D)
Payroll.....$1,000..	200,470	3,184	4,469	7,656	17,134	15,910	41,441	24,881	85,795	(D)	(D)
Value added, adjusted.....do....	826,070	16,068	16,544	27,084	50,573	64,105	202,980	76,730	371,986	(D)	(D)
Value of shipments.....do....	1,284,338	30,767	29,922	44,215	113,234	105,596	298,750	115,090	546,764	(D)	(D)
Capital expenditures, new...do....	18,002	537	348	569	492	1,875	3,387	2,609	8,185	(D)	(D)
	Subindustry 2731-13.—Books, Publishing and Printing										
Establishments.....number..	203	81	29	25	25	14	13	10	4	2	-
All employees:											
Total.....do....	13,976	144	199	358	819	1,022	1,898	3,425	6,171	(D)	-
Payroll.....$1,000..	80,194	557	772	1,672	3,685	5,503	9,590	17,163	41,252	(D)	-
Value added, adjusted.....do....	169,666	1,693	1,966	3,326	9,946	12,390	19,299	35,285	85,761	(D)	-
Value of shipments.....do....	250,294	2,695	2,729	5,471	16,121	19,064	30,683	55,147	118,384	(D)	-
Capital expenditures, new...do....	7,424	54	49	201	297	467	1,072	3,485	1,799	(D)	-
	INDUSTRY 2732.—BOOK PRINTING										
Establishments.....number..	683	185	95	128	161	49	37	13	9	6	-
All employees:											
Total.....do....	36,101	330	652	1,757	4,945	3,468	5,973	4,891	6,137	7,948	-
Payroll.....$1,000..	214,175	1,691	3,887	10,758	30,912	23,267	36,207	24,994	34,114	48,345	-
Value added, adjusted.....do....	358,294	4,124	7,699	18,265	52,102	41,494	58,871	44,230	53,949	77,560	-
Value of shipments.....do....	546,587	6,930	12,528	28,378	83,396	66,789	90,398	69,237	73,003	115,928	-
Capital expenditures, new...do....	24,945	52,262	328	1,055	2,771	2,109	3,317	4,131	3,679	5,293	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2741.—MISCELLANEOUS PUBLISHING											
Establishments.....number..	1,374	840	222	135	97	32	30	15	1	2	-
All employees:											
Total.....do....	22,551	1,307	1,464	1,857	2,837	2,200	4,224	4,888	3,774	(D)	-
Payroll.....$1,000..	130,427	6,624	7,496	9,770	15,379	11,295	22,563	30,534	26,766	(D)	-
Value added, adjusted.....do....	252,932	12,860	14,689	17,754	27,797	20,024	54,629	51,935	53,244	(D)	-
Value of shipments.....do....	389,588	23,949	24,723	27,207	42,333	35,355	75,602	94,299	66,120	(D)	-
Capital expenditures, new...do....	7,113	874	589	801	1,128	802	1,656	801	462	(D)	-
INDUSTRY 2751.—PRINTING, EXCEPT LITHOGRAPHIC											
Establishments.....number..	12,109	7,081	2,115	1,509	876	298	148	50	20	10	2
All employees:											
Total.....do....	170,215	12,494	13,938	20,447	25,909	20,534	21,864	17,463	13,333	24,233	(D)
Payroll.....$1,000..	1,007,469	53,727	67,574	106,832	143,299	120,527	134,276	114,675	85,637	180,922	(D)
Value added, adjusted.....do....	1,578,275	111,788	115,121	173,520	231,504	191,409	211,347	180,981	124,291	238,314	(D)
Value of shipments.....do....	2,645,051	191,764	189,645	277,415	376,794	319,750	373,882	303,815	194,630	417,353	(D)
Capital expenditures, new...do....	99,228	[5]12,016	8,073	8,265	11,553	10,008	11,102	9,181	5,753	23,277	(D)
Subindustry 2751-15.—Printing, Except Lithographic—GRAVURE PRINTING											
Establishments.....number..	171	51	24	17	29	16	18	9	3	4	-
All employees:											
Total.....do....	15,193	97	152	236	941	1,145	2,688	3,293	1,730	4,911	-
Payroll.....$1,000..	109,180	454	1,090	1,360	6,269	6,342	18,568	24,011	13,445	37,641	-
Value added, adjusted.....do....	164,742	1,281	1,713	2,637	11,900	10,629	33,014	39,692	17,428	46,448	-
Value of shipments.....do....	287,105	2,188	2,645	4,515	20,246	19,123	59,795	66,679	27,255	84,659	-
Capital expenditures, new...do....	10,187	64	67	48	834	820	1,579	2,008	568	4,199	-
Subindustry 2751-17.—Printing, Except Lithographic—LETTERPRESS AND SCREEN PRINTING											
Establishments.....number..	11,938	7,030	2,091	1,492	847	282	130	41	17	6	2
All employees:											
Total.....do....	155,022	12,397	13,786	20,211	24,968	19,389	19,176	14,170	11,603	19,322	(D)
Payroll.....$1,000..	898,289	53,273	66,484	105,472	137,030	114,185	115,708	90,664	72,192	143,281	(D)
Value added, adjusted.....do....	1,413,533	110,507	113,408	170,883	219,604	180,780	178,333	141,289	106,863	191,866	(D)
Value of shipments.....do....	2,357,946	189,576	187,000	272,900	356,551	300,627	314,087	237,136	167,375	332,694	(D)
Capital expenditures, new...do....	89,041	[5]11,952	8,006	8,217	10,719	9,188	9,523	7,173	5,185	19,078	(D)
INDUSTRY 2752.—PRINTING, LITHOGRAPHIC											
Establishments.....number..	6,822	3,195	1,226	1,062	854	271	160	48	3	2	1
All employees:											
Total.....do....	121,072	5,682	8,165	14,691	26,059	18,411	24,061	16,296	2,110	5,597	(D)
Payroll.....$1,000..	794,353	29,923	45,313	91,513	175,089	129,825	159,820	113,802	12,105	36,963	(D)
Value added, adjusted.....do....	1,302,046	67,021	80,961	147,077	272,369	207,466	266,712	181,875	22,561	56,004	(D)
Value of shipments.....do....	2,149,651	112,016	133,288	239,000	445,946	344,157	452,196	301,889	34,684	86,475	(D)
Capital expenditures, new...do....	76,877	[4]6,307	5,238	8,667	17,014	11,602	15,042	10,961	601	1,445	(D)
INDUSTRY 2753.—ENGRAVING AND PLATE PRINTING											
Establishments.....number..	580	252	122	101	82	10	11	1	-	1	-
All employees:											
Total.....do....	9,022	424	836	1,399	2,466	751	3,146	(D)	-	(D)	-
Payroll.....$1,000..	50,703	2,457	4,351	6,872	12,898	4,084	20,041	(D)	-	(D)	-
Value added, adjusted.....do....	80,748	5,023	6,907	10,122	19,878	6,405	32,413	(D)	-	(D)	-
Value of shipments.....do....	111,138	7,103	10,242	14,895	27,439	9,048	42,411	(D)	-	(D)	-
Capital expenditures, new...do....	3,836	227	482	394	705	239	1,789	(D)	-	(D)	-
INDUSTRY 2761.—MANIFOLD BUSINESS FORMS											
Establishments.....number..	502	103	51	98	104	72	47	23	3	1	-
All employees:											
Total.....do....	28,796	213	347	1,371	3,239	4,970	6,937	8,336	3,383	(D)	-
Payroll.....$1,000..	173,238	914	1,762	7,612	18,133	27,612	39,902	53,619	23,684	(D)	-
Value added, adjusted.....do....	377,710	2,388	4,154	12,881	32,046	60,438	102,533	113,520	49,750	(D)	-
Value of shipments.....do....	637,673	4,162	6,493	22,595	56,009	104,008	170,582	192,546	81,278	(D)	-
Capital expenditures, new...do....	23,084	212	316	943	2,631	5,615	6,103	4,678	2,586	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2771.—GREETING CARD MANUFACTURING											
Establishments.....number..	257	102	32	30	36	23	18	7	4	3	2
All employees:											
Total.....do....	21,535	157	220	414	1,089	1,593	2,802	2,154	2,324	10,782	(D)
Payroll.....$1,000..	105,600	631	1,045	2,176	4,587	8,638	12,468	7,593	9,752	58,710	(D)
Value added, adjusted.....do....	204,608	1,911	2,669	5,063	8,141	14,771	22,255	12,182	14,452	123,164	(D)
Value of shipments.....do....	345,961	3,797	5,562	10,907	15,425	24,243	37,142	30,297	22,915	195,673	(D)
Capital expenditures, new...do....	6,847	83	117	234	313	887	1,064	862	241	3,046	(D)
INDUSTRY 2782.—BLANKBOOKS; LOOSELEAF BINDERS											
Establishments.....number..	410	140	57	55	72	37	38	7	3	1	-
All employees:											
Total.....do....	17,899	264	375	799	2,261	2,787	5,964	2,361	3,088	(D)	-
Payroll.....$1,000..	91,197	1,176	1,669	3,730	10,613	13,102	30,207	14,235	16,465	(D)	-
Value added, adjusted.....do....	168,465	2,115	3,119	6,786	16,991	24,165	56,805	26,313	32,171	(D)	-
Value of shipments.....do....	268,219	3,760	5,367	10,795	29,778	40,715	90,864	36,495	50,445	(D)	-
Capital expenditures, new...do....	6,120	153	149	174	641	820	1,441	1,485	1,257	(D)	-
INDUSTRY 2789.—BOOKBINDING AND RELATED WORK											
Establishments.....number..	1,043	358	174	200	196	73	34	7	-	1	-
All employees:											
Total.....do....	24,338	663	1,207	2,729	6,132	4,975	5,307	3,325	-	(D)	-
Payroll.....$1,000..	114,977	2,786	5,309	12,594	28,838	22,852	25,569	17,029	-	(D)	-
Value added, adjusted.....do....	172,298	4,819	8,769	19,600	43,358	34,417	36,966	24,369	-	(D)	-
Value of shipments.....do....	228,477	6,424	11,218	24,991	53,440	43,252	53,395	35,757	-	(D)	-
Capital expenditures, new...do....	7,994	306	422	983	2,087	1,589	1,415	1,192	-	(D)	-
INDUSTRY 2791.—TYPESETTING											
Establishments.....number..	1,289	500	253	254	186	67	25	4	-	-	-
All employees:											
Total.....do....	20,997	883	1,693	3,559	5,817	4,483	3,208	1,354	-	-	-
Payroll.....$1,000..	147,286	5,263	10,896	23,929	40,210	32,985	24,760	9,243	-	-	-
Value added, adjusted.....do....	205,450	9,159	16,208	34,468	57,775	44,608	31,606	11,626	-	-	-
Value of shipments.....do....	241,014	11,644	19,153	40,922	67,261	49,890	38,536	13,608	-	-	-
Capital expenditures, new...do....	6,747	523	722	1,161	1,958	1,273	861	249	-	-	-
INDUSTRY 2793.—PHOTOENGRAVING											
Establishments.....number..	883	276	195	194	158	45	15	-	-	-	-
All employees:											
Total.....do....	14,620	465	1,334	2,765	4,867	2,855	2,334	-	-	-	-
Payroll.....$1,000..	119,743	3,274	8,933	19,894	38,612	25,345	23,685	-	-	-	-
Value added, adjusted.....do....	171,796	6,599	14,833	28,812	53,723	34,579	33,250	-	-	-	-
Value of shipments.....do....	212,377	8,453	18,264	35,231	66,490	41,980	41,959	-	-	-	-
Capital expenditures, new...do....	5,720	363	589	970	1,571	1,046	1,181	-	-	-	-
INDUSTRY 2794.—ELECTROTYPING AND STEREOTYPING											
Establishments.....number..	184	42	21	41	50	22	7	1	-	-	-
All employees:											
Total.....do....	5,116	66	143	569	1,492	1,506	1,340	(D)	-	-	-
Payroll.....$1,000..	39,290	468	945	4,044	11,023	11,834	10,976	(D)	-	-	-
Value added, adjusted.....do....	57,173	747	1,393	5,993	15,191	16,874	16,975	(D)	-	-	-
Value of shipments.....do....	76,068	930	1,850	7,974	21,511	22,612	21,191	(D)	-	-	-
Capital expenditures, new...do....	985	13	26	105	297	324	220	(D)	-	-	-
INDUSTRY 2812.—ALKALIES AND CHLORINE											
Establishments.....number..	38	1	-	-	1	9	10	4	7	5	1
All employees:											
Total.....do....	19,652	637	-	-	(D)	(D)	1,642	1,370	5,113	10,890	(D)
Payroll.....$1,000..	138,156	4,328	-	-	(D)	(D)	10,884	9,489	38,604	74,851	(D)
Value added, adjusted.....do....	389,243	12,845	-	-	(D)	(D)	51,665	32,886	115,505	176,342	(D)
Value of shipments.....do....	652,120	26,071	-	-	(D)	(D)	90,565	54,608	191,871	289,005	(D)
Capital expenditures, new...do....	57,470	6,408	-	-	(D)	(D)	7,607	2,329	18,434	22,692	(D)

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of– 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2813.—INDUSTRIAL GASES											
Establishments.....number..	456	134	70	106	98	35	12	1	-	-	-
All employees:											
Total.....do....	9,809	288	480	1,471	2,967	2,352	2,251	(D)	-	-	-
Payroll.....$1,000..	66,551	1,847	3,122	10,242	20,135	16,553	14,652	(D)	-	-	-
Value added, adjusted.....do....	260,182	21,100	22,382	50,495	65,050	67,188	33,967	(D)	-	-	-
Value of shipments.....do....	425,388	39,608	36,985	74,979	103,308	95,456	75,052	(D)	-	-	-
Capital expenditures, new...do....	93,518	[3]30,895	(D)	17,980	24,895	14,878	4,870	(D)	-	-	-
INDUSTRY 2814.—CYCLIC (COAL TAR) CRUDES											
Establishments.....number..	36	6	6	7	9	4	2	2	-	-	-
All employees:											
Total.....do....	1,636	57	(D)	109	297	1,173	(D)	(D)	-	-	-
Payroll.....$1,000..	11,009	326	(D)	666	2,027	7,990	(D)	(D)	-	-	-
Value added, adjusted.....do....	35,103	1,249	(D)	1,264	10,213	22,377	(D)	(D)	-	-	-
Value of shipments.....do....	105,172	4,449	(D)	6,805	27,260	66,658	(D)	(D)	-	-	-
Capital expenditures, new...do....	2,225	140	(D)	878	(D)	1,207	(D)	(D)	-	-	-
INDUSTRY 2815.—INTERMEDIATE COAL TAR PRODUCTS											
Establishments.....number..	141	22	9	26	23	17	20	10	8	5	1
All employees:											
Total.....do....	26,089	35	57	358	776	1,299	3,186	3,475	5,516	11,387	(D)
Payroll.....$1,000..	190,849	211	381	2,481	4,953	9,196	21,598	22,791	40,923	88,315	(D)
Value added, adjusted.....do....	570,234	594	1,058	8,720	16,363	26,844	65,061	79,282	122,027	250,285	(D)
Value of shipments.....do....	1,107,583	1,506	2,209	20,394	38,183	62,206	133,174	163,182	223,362	463,367	(D)
Capital expenditures, new...do....	104,600	6,307	(D)	(D)	1,385	3,387	13,944	16,175	17,101	46,301	(D)
INDUSTRY 2816.—INORGANIC PIGMENTS											
Establishments.....number..	96	20	14	13	14	11	10	8	4	2	-
All employees:											
Total.....do....	11,544	49	103	172	452	698	1,623	2,878	5,569	(D)	-
Payroll.....$1,000..	76,372	230	625	948	2,790	3,909	8,801	18,199	40,870	(D)	-
Value added, adjusted.....do....	286,407	1,135	2,030	4,059	10,728	11,848	27,032	73,638	155,937	(D)	-
Value of shipments.....do....	484,768	3,570	7,163	6,656	21,078	30,740	70,578	120,338	224,645	(D)	-
Capital expenditures, new...do....	17,365	[20]1,067	(D)	(D)	621	156	812	9,163	5,546	(D)	-
INDUSTRY 2818.—ORGANIC CHEMICALS, N.E.C.											
Establishments.....number..	464	134	43	46	72	47	57	26	21	12	6
All employees:											
Total.....do....	85,492	246	284	634	2,268	3,392	9,096	9,188	14,214	21,627	24,543
Payroll.....$1,000..	677,252	1,651	1,876	4,363	15,323	23,806	66,465	68,478	111,952	175,272	208,066
Value added, adjusted.....do....	2,727,450	7,513	4,909	13,124	62,117	104,066	280,623	263,673	554,199	714,373	722,853
Value of shipments.....do....	4,840,176	17,439	14,769	29,736	152,658	235,618	572,264	497,218	952,202	1,160,016	1,208,256
Capital expenditures, new...do....	400,981	[21]41,018	716	839	13,961	13,791	70,980	34,672	80,724	76,314	67,966
INDUSTRY 2819.—INORGANIC CHEMICALS, N.E.C., TOTAL (ALL ESTABLISHMENTS-PRIVATE AND GOVERNMENT)											
Establishments.....number..	674	168	90	93	111	75	74	33	18	8	4
All employees:											
Total.....do....	82,430	232	626	1,312	3,531	5,164	11,630	11,617	12,583	11,690	24,045
Payroll.....$1,000..	603,036	1,401	3,756	8,116	21,756	34,670	78,662	83,100	91,129	86,336	194,110
Value added, adjusted.....do....	1,902,563	9,898	16,661	41,533	99,263	127,450	296,853	303,978	279,057	222,853	505,017
Value of shipments.....do....	3,493,870	25,691	35,646	79,623	217,072	303,634	620,763	604,092	616,779	409,695	580,875
Capital expenditures, new...do....	137,107	[5]5,452	1,584	1,896	9,555	32,267	23,672	40,888	14,297	7,496	-
Subindustry 2819-11.--Inorganic Chemicals, N.E.C. (PRIVATELY-OWNED AND OPERATED ESTABLISHMENTS)											
Establishments.....number..	665	168	90	93	111	75	74	33	17	4	-
All employees:											
Total.....do....	51,059	232	626	1,312	3,531	5,164	11,630	11,617	16,947	(D)	-
Payroll.....$1,000..	353,064	1,401	3,756	8,116	21,756	34,670	78,662	83,100	121,603	(D)	-
Value added, adjusted.....do....	1,243,772	9,898	16,661	41,533	99,263	127,450	296,853	303,978	348,136	(D)	-
Value of shipments.....do....	2,627,999	25,691	35,646	79,623	217,072	303,634	620,763	604,092	741,478	(D)	-
Capital expenditures, new...do....	137,107	[5]5,452	1,584	1,896	9,555	32,267	23,672	40,888	21,793	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2821.—PLASTICS MATERIALS AND RESINS											
Establishments.....number..	509	103	56	94	103	59	41	24	16	9	4
All employees:											
Total.....do....	61,366	194	375	1,300	3,189	4,116	6,695	7,973	11,832	14,324	11,368
Payroll.....$1,000..	437,566	1,220	2,009	8,059	20,175	26,356	48,487	57,161	81,791	103,402	88,896
Value added, adjusted.....do....	1,202,349	3,775	6,556	27,827	66,265	70,624	179,181	185,009	208,867	234,206	220,039
Value of shipments.....do....	2,571,492	10,831	17,012	78,222	191,931	204,986	398,998	380,073	425,489	469,590	394,360
Capital expenditures, new...do....	137,781	[5]7,611	565	2,322	8,410	11,417	17,044	18,171	23,058	34,214	14,969
INDUSTRY 2822.—SYNTHETIC RUBBER											
Establishments.....number..	24	-	-	-	-	3	4	6	10	1	-
All employees:											
Total.....do....	11,840	-	-	-	-	786	(D)	2,136	8,918	(D)	-
Payroll.....$1,000..	93,507	-	-	-	-	6,379	(D)	17,084	70,044	(D)	-
Value added, adjusted.....do....	329,520	-	-	-	-	24,760	(D)	46,133	258,627	(D)	-
Value of shipments.....do....	763,891	-	-	-	-	53,148	(D)	126,520	584,223	(D)	-
Capital expenditures, new...do....	32,328	-	-	-	-	9,871	(D)	6,083	16,374	(D)	-
INDUSTRY 2823.—CELLULOSIC MAN-MADE FIBERS											
Establishments.....number..	19	-	-	-	-	-	-	2	3	12	2
All employees:											
Total.....do....	30,086	-	-	-	-	-	-	2,919	(D)	27,167	(D)
Payroll.....$1,000..	167,028	-	-	-	-	-	-	15,502	(D)	151,526	(D)
Value added, adjusted.....do....	411,529	-	-	-	-	-	-	35,220	(D)	376,309	(D)
Value of shipments.....do....	731,815	-	-	-	-	-	-	71,831	(D)	659,984	(D)
Capital expenditures, new...do....	38,129	-	-	-	-	-	-	2,211	(D)	35,918	(D)
INDUSTRY 2824.—ORGANIC FIBERS, NONCELLULOSIC											
Establishments.....number..	25	-	-	1	-	2	3	-	7	5	7
All employees:											
Total.....do....	41,421	-	-	598	-	(D)	(D)	-	4,640	36,183	(D)
Payroll.....$1,000..	275,809	-	-	3,073	-	(D)	(D)	-	27,760	244,976	(D)
Value added, adjusted.....do....	922,001	-	-	2,586	-	(D)	(D)	-	88,375	831,040	(D)
Value of shipments.....do....	1,403,178	-	-	8,194	-	(D)	(D)	-	154,018	1,240,966	(D)
Capital expenditures, new...do....	170,323	-	-	2,377	-	(D)	(D)	-	23,989	143,957	(D)
INDUSTRY 2831.—BIOLOGICAL PRODUCTS											
Establishments.....number..	113	35	22	16	19	5	7	8	1	-	-
All employees:											
Total.....do....	5,789	56	149	212	547	345	1,192	3,288	(D)	-	-
Payroll.....$1,000..	33,813	281	826	1,101	2,937	1,980	6,229	20,459	(D)	-	-
Value added, adjusted.....do....	60,377	865	1,729	2,230	7,130	2,187	14,812	31,424	(D)	-	-
Value of shipments.....do....	95,744	1,187	2,750	4,562	10,790	3,865	21,519	51,071	(D)	-	-
Capital expenditures, new...do....	10,091	[20]1,050	231	232	414	323	1,092	6,749	(D)	-	-
INDUSTRY 2833.—MEDICINALS AND BOTANICALS											
Establishments.....number..	138	57	20	19	18	9	9	2	2	2	-
All employees:											
Total.....do....	8,128	110	143	260	523	598	1,356	5,138	(D)	(D)	-
Payroll.....$1,000..	59,324	476	1,133	1,594	3,058	3,582	9,085	40,396	(D)	(D)	-
Value added, adjusted.....do....	151,297	1,009	2,257	5,183	12,413	7,697	27,004	95,734	(D)	(D)	-
Value of shipments.....do....	305,793	2,471	5,710	12,346	43,431	19,944	57,202	164,689	(D)	(D)	-
Capital expenditures, new...do....	13,951	109	128	172	324	926	1,726	10,566	(D)	(D)	-
INDUSTRY 2834.—PHARMACEUTICAL PREPARATIONS											
Establishments.....number..	1,011	461	122	109	135	63	61	24	19	11	6
All employees:											
Total.....do....	85,084	780	815	1,517	4,294	4,458	9,901	8,430	13,618	16,185	25,086
Payroll.....$1,000..	580,638	3,153	3,663	7,422	23,140	23,712	56,148	50,638	92,328	121,470	198,964
Value added, adjusted.....do....	2,595,657	7,922	7,865	19,359	58,390	91,821	293,881	340,660	395,982	695,354	684,423
Value of shipments.....do....	3,314,323	13,676	13,537	33,862	97,399	134,512	409,060	439,042	508,581	841,765	822,889
Capital expenditures, new...do....	89,286	[22]13,919	375	795	2,145	3,341	9,675	7,405	6,089	22,727	22,815

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2841.—SOAP AND OTHER DETERGENTS											
Establishments.....number..	704	322	115	95	86	29	28	15	9	4	1
All employees:											
Total.....do....	30,794	498	738	1,319	2,681	1,990	4,012	5,805	6,368	7,383	(D)
Payroll.....$1,000..	214,144	2,392	4,189	7,682	16,716	11,759	24,805	43,893	47,698	55,010	(D)
Value added, adjusted.....do....	1,137,425	6,410	11,280	18,410	56,735	58,467	100,945	282,564	300,660	301,954	(D)
Value of shipments.....do....	2,127,789	14,788	25,198	40,753	113,855	107,865	196,729	537,828	541,538	549,235	(D)
Capital expenditures, new...do....	44,056	[23]12,861	(D)	548	2,364	1,869	6,363	8,718	4,516	6,817	(D)
INDUSTRY 2842.—POLISHES AND SANITATION GOODS											
Establishments.....number..	1,101	618	179	131	102	38	26	7	-	-	-
All employees:											
Total.....do....	16,332	1,040	1,205	1,763	2,995	2,676	3,969	2,684	-	-	-
Payroll.....$1,000..	96,586	4,626	6,102	10,461	17,384	15,046	25,193	17,774	-	-	-
Value added, adjusted.....do....	420,440	11,843	17,507	26,905	64,599	65,128	126,810	107,648	-	-	-
Value of shipments.....do....	757,179	24,174	32,622	53,852	130,099	122,805	207,942	185,685	-	-	-
Capital expenditures, new...do....	13,306	[7]787	588	1,016	1,487	1,469	6,054	1,905	-	-	-
INDUSTRY 2843.—SURFACE ACTIVE AGENTS											
Establishments.....number..	148	32	33	24	45	9	3	1	1	-	-
All employees:											
Total.....do....	4,108	56	235	332	1,346	607	1,532	(D)	(D)	-	-
Payroll.....$1,000..	31,893	382	1,744	2,555	10,388	4,851	11,973	(D)	(D)	-	-
Value added, adjusted.....do....	75,698	1,017	4,514	6,095	25,423	12,587	26,062	(D)	(D)	-	-
Value of shipments.....do....	177,821	2,427	12,011	15,299	61,393	27,317	59,374	(D)	(D)	-	-
Capital expenditures, new...do....	7,183	[20]1,815	247	315	1,582	670	2,554	(D)	(D)	-	-
INDUSTRY 2844.—TOILET PREPARATIONS											
Establishments.....number..	707	346	101	77	73	27	40	28	11	4	-
All employees:											
Total.....do....	34,338	604	669	1,038	2,169	1,877	5,815	9,566	7,218	5,382	-
Payroll.....$1,000..	183,219	2,132	3,197	4,874	9,593	8,154	29,796	49,860	44,848	30,765	-
Value added, adjusted.....do....	1,232,883	6,946	12,396	13,247	25,498	24,574	201,028	304,277	494,885	150,032	-
Value of shipments.....do....	1,792,662	13,200	21,475	23,369	48,919	54,573	304,467	462,697	660,636	203,326	-
Capital expenditures, new...do....	20,186	[20]798	409	344	865	1,026	2,610	5,365	6,662	2,107	-
INDUSTRY 2851.—PAINTS AND ALLIED PRODUCTS											
Establishments.....number..	1,788	500	309	325	343	160	114	29	6	2	-
All employees:											
Total.....do....	61,267	977	2,126	4,453	10,449	11,282	17,028	9,182	5,770	(D)	-
Payroll.....$1,000..	401,240	5,859	12,402	27,133	66,734	72,472	114,213	62,785	39,642	(D)	-
Value added, adjusted.....do....	1,111,681	15,029	30,641	65,051	155,933	197,118	310,758	218,913	118,238	(D)	-
Value of shipments.....do....	2,456,361	38,531	74,972	156,721	369,393	437,116	700,870	453,387	225,371	(D)	-
Capital expenditures, new...do....	37,705	[5]2,641	1,072	2,167	5,304	5,282	12,522	5,946	2,771	(D)	-
INDUSTRY 2861.—GUM AND WOOD CHEMICALS											
Establishments.....number..	246	114	45	34	26	14	9	2	2	-	-
All employees:											
Total.....do....	6,787	200	301	475	744	1,056	1,486	2,525	(D)	-	-
Payroll.....$1,000..	32,682	659	1,093	1,484	2,928	4,726	6,596	15,196	(D)	-	-
Value added, adjusted.....do....	100,329	1,947	3,262	6,294	6,868	11,033	17,322	53,603	(D)	-	-
Value of shipments.....do....	212,850	4,534	8,012	12,088	20,961	30,036	38,276	98,941	(D)	-	-
Capital expenditures, new...do....	5,638	248	181	331	333	1,755	760	2,030	(D)	-	-
INDUSTRY 2871.—FERTILIZERS											
Establishments.....number..	281	44	20	18	71	73	40	13	1	1	-
All employees:											
Total.....do....	19,992	72	143	261	2,471	5,133	5,720	6,192	(D)	(D)	-
Payroll.....$1,000..	102,294	300	593	1,112	10,430	23,727	29,318	36,814	(D)	(D)	-
Value added, adjusted.....do....	287,800	717	2,381	3,440	27,898	62,621	67,946	122,797	(D)	(D)	-
Value of shipments.....do....	869,213	1,801	5,903	11,320	104,256	237,367	220,390	288,176	(D)	(D)	-
Capital expenditures, new...do....	45,476	[20]622	56	163	1,443	4,798	14,377	24,017	(D)	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2872.—FERTILIZERS, MIXING ONLY											
Establishments.....number..	733	177	130	194	177	47	8	-	-	-	-
All employees:											
Total.....do....	13,752	361	904	2,703	5,425	3,200	1,159	-	-	-	-
Payroll.....$1,000..	59,390	1,572	3,603	11,046	22,691	15,120	5,358	-	-	-	-
Value added, adjusted.....do....	164,140	4,140	10,199	29,121	62,245	34,135	24,300	-	-	-	-
Value of shipments.....do....	623,070	18,557	38,236	110,744	245,100	150,033	60,400	-	-	-	-
Capital expenditures, new...do....	11,987	396	961	2,240	5,673	2,072	645	-	-	-	-
INDUSTRY 2879.—AGRICULTURAL CHEMICALS, N.E.C.											
Establishments.....number..	340	105	61	62	71	26	9	5	1	-	-
All employees:											
Total.....do....	9,090	220	415	836	2,197	1,925	1,048	2,449	(D)	-	-
Payroll.....$1,000..	51,465	947	2,190	3,883	11,085	11,038	5,770	16,552	(D)	-	-
Value added, adjusted.....do....	176,333	3,024	5,690	18,382	33,787	30,412	14,285	70,753	(D)	-	-
Value of shipments.....do....	476,661	11,570	21,007	55,846	110,789	99,210	50,462	127,777	(D)	-	-
Capital expenditures, new...do....	9,055	157	241	499	930	1,787	895	4,546	(D)	-	-
INDUSTRY 2891.—GLUE AND GELATIN											
Establishments.....number..	368	138	72	54	62	21	16	5	-	-	-
All employees:											
Total.....do....	8,521	224	481	738	1,952	1,353	2,276	1,497	-	-	-
Payroll.....$1,000..	54,869	1,565	3,137	5,039	13,096	8,783	13,364	9,885	-	-	-
Value added, adjusted.....do....	147,006	4,553	8,220	13,158	37,030	26,107	32,745	25,193	-	-	-
Value of shipments.....do....	351,680	11,053	23,867	32,791	89,861	55,480	86,855	51,773	-	-	-
Capital expenditures, new[1]do....	9,778	605	441	564	2,517	2,786	1,444	1,421	-	-	-
INDUSTRY 2892.—EXPLOSIVES											
Establishments.....number..	68	12	4	5	7	9	18	6	3	3	1
All employees:											
Total.....do....	14,814	136	(D)	(D)	220	563	3,075	1,875	1,781	7,164	(D)
Payroll.....$1,000..	91,613	699	(D)	(D)	1,355	3,013	18,590	12,407	11,433	44,116	(D)
Value added, adjusted.....do....	165,733	2,320	(D)	(D)	2,479	8,081	39,947	32,110	25,599	55,197	(D)
Value of shipments.....do....	283,298	3,604	(D)	(D)	6,011	16,569	69,887	52,919	33,103	101,205	(D)
Capital expenditures, new[1]do....	5,500	124	(D)	(D)	34	1,310	1,168	964	616	1,284	(D)
INDUSTRY 2893.—PRINTING INK											
Establishments.....number..	348	97	67	81	66	20	13	4	-	-	-
All employees:											
Total.....do....	8,455	193	451	1,116	2,051	1,444	3,200	(D)	-	-	-
Payroll.....$1,000..	55,943	1,205	2,900	7,431	13,710	10,230	20,467	(D)	-	-	-
Value added, adjusted.....do....	125,138	3,136	6,767	17,457	30,376	20,036	47,366	(D)	-	-	-
Value of shipments.....do....	268,012	6,889	14,658	37,758	62,587	39,011	107,109	(D)	-	-	-
Capital expenditures, new[1]do....	4,632	491	405	532	1,224	646	1,334	(D)	-	-	-
INDUSTRY 2895.—CARBON BLACK											
Establishments.....number..	33	-	1	1	6	15	9	1	-	-	-
All employees:											
Total.....do....	3,010	-	245	(D)	(D)	1,136	1,629	(D)	-	-	-
Payroll.....$1,000..	20,669	-	1,750	(D)	(D)	7,296	11,623	(D)	-	-	-
Value added, adjusted.....do....	91,752	-	8,159	(D)	(D)	40,053	43,540	(D)	-	-	-
Value of shipments.....do....	149,122	-	12,751	(D)	(D)	65,975	70,396	(D)	-	-	-
Capital expenditures, new..do....	3,972	-	49	-	(D)	1,864	2,059	(D)	-	-	-
INDUSTRY 2899.—CHEMICAL PREPARATIONS, N.E.C.											
Establishments.....number..	1,384	698	251	193	137	54	37	10	3	1	-
All employees:											
Total.....do....	25,788	1,319	1,670	2,588	4,308	3,810	5,756	3,191	3,146	(D)	-
Payroll.....$1,000..	162,926	6,198	9,185	14,799	27,407	22,964	35,010	21,893	25,470	(D)	-
Value added, adjusted.....do....	505,868	17,958	29,491	40,701	95,237	70,988	108,693	59,377	83,423	(D)	-
Value of shipments.....do....	931,691	33,861	54,868	85,249	181,031	126,909	203,083	95,218	151,472	(D)	-
Capital expenditures, new[1]do....	22,060	1,642	1,319	1,782	2,711	2,045	6,066	2,374	4,121	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 2911.—PETROLEUM REFINING											
Establishments.....number..	427	57	35	38	59	44	83	55	30	16	10
All employees:											
Total.....do....	119,297	88	225	515	1,881	3,104	13,941	40,322	(D)	23,245	35,976
Payroll.....$1,000..	922,319	538	1,374	3,281	13,761	21,769	101,017	314,939	(D)	184,817	280,823
Value added, adjusted.....do....	3,137,603	8,398	3,025	6,543	39,317	64,518	379,574	1,083,759	(D)	845,532	706,937
Value of shipments.....do....	16,496,896	12,136	10,660	30,264	190,670	387,494	2,100,066	6,164,468	(D)	3,735,893	3,865,245
Capital expenditures, new...do....	385,126	[4]3,290	608	1,434	71,655	6,223	55,051	113,869	(D)	67,159	65,837
INDUSTRY 2951.—PAVING MIXTURES AND BLOCKS											
Establishments.....number..	762	246	237	152	94	25	7	1	-	-	-
All employees:											
Total.....do....	9,680	618	1,563	2,067	5,432	(D)	(D)	(D)	-	-	-
Payroll.....$1,000..	62,065	3,864	10,396	13,100	34,705	(D)	(D)	(D)	-	-	-
Value added, adjusted.....do....	165,584	14,943	34,431	37,895	78,315	(D)	(D)	(D)	-	-	-
Value of shipments.....do....	427,460	45,799	107,783	97,686	176,192	(D)	(D)	(D)	-	-	-
Capital expenditures, new...do....	15,055	1,612	3,856	3,476	6,111	(D)	(D)	(D)	-	-	-
INDUSTRY 2952.—ASPHALT FELTS AND COATINGS											
Establishments.....number..	230	35	24	31	38	58	35	8	1	-	-
All employees:											
Total.....do....	14,581	81	159	415	1,266	4,133	5,040	3,487	(D)	-	-
Payroll.....$1,000..	82,477	411	736	2,139	6,570	22,698	29,721	20,202	(D)	-	-
Value added, adjusted.....do....	189,981	1,805	2,368	6,126	14,117	48,926	69,572	47,067	(D)	-	-
Value of shipments.....do....	527,632	3,366	6,474	23,290	41,687	148,816	197,681	106,318	(D)	-	-
Capital expenditures, new...do....	6,954	23	300	246	430	2,469	2,361	1,125	(D)	-	-
INDUSTRY 2992.—LUBRICATING OILS AND GREASES											
Establishments.....number..	353	120	68	57	67	26	12	2	-	1	-
All employees:											
Total.....do....	8,433	172	432	842	2,213	1,935	2,839	(D)	-	(D)	-
Payroll.....$1,000..	57,946	1,197	2,702	5,636	14,944	13,688	19,779	(D)	-	(D)	-
Value added, adjusted.....do....	199,074	5,655	7,280	17,950	67,425	47,578	53,186	(D)	-	(D)	-
Value of shipments.....do....	471,229	13,439	20,942	46,989	141,812	113,647	134,400	(D)	-	(D)	-
Capital expenditures, new...do....	4,703	494	362	363	1,270	1,209	1,005	(D)	-	(D)	-
INDUSTRY 2999.—PETROLEUM AND COAL PRODUCTS, N.E.C.											
Establishments.....number..	67	30	10	10	11	3	2	-	1	-	-
All employees:											
Total.....do....	1,495	57	66	138	1,234	(D)	(D)	-	(D)	-	-
Payroll.....$1,000..	8,958	247	336	730	7,645	(D)	(D)	-	(D)	-	-
Value added, adjusted.....do....	20,989	565	704	2,881	16,839	(D)	(D)	-	(D)	-	-
Value of shipments.....do....	71,525	1,844	1,777	7,698	60,206	(D)	(D)	-	(D)	-	-
Capital expenditures, new...do....	1,843	46	38	89	3,340	(D)	(D)	-	(D)	-	-
INDUSTRY 3011.—TIRES AND INNER TUBES											
Establishments.....number..	155	32	13	14	22	13	12	12	9	22	6
All employees:											
Total.....do....	85,259	46	91	194	711	965	2,087	4,372	6,846	36,855	33,092
Payroll.....$1,000..	621,741	268	450	1,023	4,550	5,908	10,274	31,082	46,101	272,955	249,130
Value added, adjusted.....do....	1,321,712	519	1,031	2,517	14,526	12,400	21,745	53,607	121,608	633,844	459,915
Value of shipments.....do....	2,949,673	1,189	1,839	4,983	35,042	34,973	45,152	138,173	251,621	1,415,756	1,020,945
Capital expenditures, new...do....	112,783	[3]24,733	(D)	(D)	(D)	(D)	(D)	18,270	4,029	33,195	32,556
INDUSTRY 3021.—RUBBER FOOTWEAR											
Establishments.....number..	53	7	-	-	3	5	14	10	6	5	3
All employees:											
Total.....do....	29,147	7	-	-	544	(D)	2,212	3,880	4,099	6,258	12,147
Payroll.....$1,000..	130,361	36	-	-	2,172	(D)	7,834	12,852	16,020	29,356	62,091
Value added, adjusted.....do....	216,959	90	-	-	3,531	(D)	14,831	18,258	20,411	49,846	109,992
Value of shipments.....do....	354,239	160	-	-	6,020	(D)	25,983	35,797	41,863	85,872	158,544
Capital expenditures, new...do....	6,903	[20]2,429	-	-	(D)	(D)	(D)	(D)	498	1,366	2,610

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3031.—RECLAIMED RUBBER											
Establishments.....number..	13	-	-	-	4	2	4	3	-	-	-
All employees:											
Total.....do....	2,010	-	-	-	277	(D)	709	1,024	-	-	-
Payroll.....$1,000..	13,598	-	-	-	1,494	(D)	4,813	7,291	-	-	-
Value added, adjusted.....do....	27,378	-	-	-	3,804	(D)	10,231	13,343	-	-	-
Value of shipments.....do....	48,879	-	-	-	6,390	(D)	17,200	25,289	-	-	-
Capital expenditures, new...do....	1,309	-	-	-	186	(D)	1,123	(D)	-	-	-
INDUSTRY 3069.—RUBBER PRODUCTS, N.E.C.											
Establishments.....number..	1,173	265	130	158	230	139	125	69	34	19	4
All employees:											
Total.....do....	132,228	492	876	2,225	7,503	9,579	19,499	23,709	23,614	24,417	20,314
Payroll.....$1,000..	760,761	2,716	4,258	11,581	37,118	50,540	105,777	130,227	134,374	146,463	137,707
Value added, adjusted.....do....	1,427,022	6,252	9,806	24,895	84,536	109,326	199,296	242,787	254,534	266,046	229,544
Value of shipments.....do....	2,597,999	12,777	21,190	51,910	172,197	211,510	365,188	422,370	446,723	483,294	410,840
Capital expenditures, new...do....	64,955	[3]1,770	2,158	(D)	4,010	3,898	11,193	12,588	9,977	10,240	9,121
INDUSTRY 3079.—PLASTICS PRODUCTS, N.E.C.											
Establishments.....number..	4,334	1,365	618	677	854	423	294	78	20	5	-
All employees:											
Total.....do....	166,315	2,640	4,142	9,538	27,019	29,662	45,523	27,561	13,238	6,992	-
Payroll.....$1,000..	837,572	11,492	18,421	43,688	123,603	145,799	230,913	144,020	74,985	44,651	-
Value added, adjusted.....do....	1,660,882	26,839	34,974	89,623	244,761	291,099	456,933	277,512	149,854	89,287	-
Value of shipments.....do....	3,165,440	51,611	70,927	170,629	469,091	576,070	893,354	513,247	279,615	140,896	-
Capital expenditures, new...do....	157,516	[4]6,291	3,580	7,552	22,847	26,786	48,390	25,759	10,069	6,242	-
INDUSTRY 3111.—LEATHER TANNING AND FINISHING											
Establishments.....number..	525	116	82	71	88	78	63	23	3	1	-
All employees:											
Total.....do....	31,417	209	550	1,020	2,769	5,465	10,132	7,918	3,354	(D)	-
Payroll.....$1,000..	163,307	1,278	2,799	4,969	13,239	26,859	51,010	44,239	18,914	(D)	-
Value added, adjusted.....do....	273,092	5,415	6,517	10,862	22,335	44,823	79,799	75,331	28,010	(D)	-
Value of shipments.....do....	758,408	29,735	28,236	44,207	58,215	126,702	224,858	174,945	71,510	(D)	-
Capital expenditures, new...do....	6,480	58	98	193	555	827	1,875	2,108	766	(D)	-
Subindustry 3111-11.—Tanneries											
Establishments.....number..	284	60	48	25	39	42	48	19	2	1	-
All employees:											
Total.....do....	22,164	103	333	367	1,225	2,938	7,916	9,282	(D)	(D)	-
Payroll.....$1,000..	117,569	477	1,498	1,592	5,626	14,395	40,207	53,774	(D)	(D)	-
Value added, adjusted.....do....	196,842	1,130	3,174	2,965	10,514	25,592	62,449	91,018	(D)	(D)	-
Value of shipments.....do....	533,109	2,601	8,180	7,943	25,832	70,201	194,658	223,694	(D)	(D)	-
Capital expenditures, new...do....	5,031	34	58	69	241	512	1,647	2,470	(D)	(D)	-
Subindustry 3111-22.—Converters											
Establishments.....number..	61	24	15	11	7	3	1	-	-	-	-
All employees:											
Total.....do....	806	50	90	139	202	325	(D)	-	-	-	-
Payroll.....$1,000..	5,781	452	755	1,108	1,351	2,115	(D)	-	-	-	-
Value added, adjusted.....do....	17,212	3,738	2,319	3,804	2,200	5,151	(D)	-	-	-	-
Value of shipments.....do....	127,744	26,334	17,806	29,734	17,603	36,267	(D)	-	-	-	-
Capital expenditures, new...do....	164	11	23	32	34	64	(D)	-	-	-	-
Subindustry 3111-33.—Contract Tanneries											
Establishments.....number..	180	32	19	35	42	33	14	4	1	-	-
All employees:										-	-
Total.....do....	8,447	56	127	514	1,342	4,418	(D)	1,990	(D)	-	-
Payroll.....$1,000..	39,957	349	546	2,269	6,262	21,152	(D)	9,379	(D)	-	-
Value added, adjusted.....do....	59,038	547	1,024	4,093	9,621	31,430	(D)	12,323	(D)	-	-
Value of shipments.....do....	97,555	800	2,250	6,530	14,780	50,434	(D)	22,761	(D)	-	-
Capital expenditures, new...do....	1,285	13	17	92	280	479	(D)	404	(D)	-	-

See footnotes at end of table

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3121.—INDUSTRIAL LEATHER BELTING											
Establishments.....number..	83	31	16	13	14	4	2	2	1	-	-
All employees:											
Total.....do....	2,870	73	106	193	421	289	1,788	(D)	(D)	-	-
Payroll.....$1,000..	15,897	362	520	1,044	2,371	1,434	10,166	(D)	(D)	-	-
Value added, adjusted.....do....	32,915	823	939	1,665	3,605	2,228	23,655	(D)	(D)	-	-
Value of shipments.....do....	51,869	1,660	1,935	3,483	8,105	3,690	32,996	(D)	(D)	-	-
Capital expenditures, new...do....	742	25	15	21	681	(D)	(D)	(D)	(D)	-	-
INDUSTRY 3131.—FOOTWEAR CUT STOCK											
Establishments.....number..	446	105	66	71	112	57	34	1	-	-	-
All employees:											
Total.....do....	14,339	192	446	1,030	3,697	3,955	5,019	(D)	-	-	-
Payroll.....$1,000..	53,420	608	1,618	3,695	14,031	15,513	17,955	(D)	-	-	-
Value added, adjusted.....do....	90,611	1,319	2,557	6,583	22,563	24,834	32,755	(D)	-	-	-
Value of shipments.....do....	229,253	3,511	6,886	17,367	60,894	59,863	80,732	(D)	-	-	-
Capital expenditures, new...do....	1,620	42	68	93	388	395	634	(D)	-	-	-
INDUSTRY 3151.—LEATHER GLOVES											
Establishments.....number..	166	34	24	21	39	27	17	3	1	-	-
All employees:											
Total.....do....	7,718	55	158	300	1,250	1,901	2,528	1,526	(D)	-	-
Payroll.....$1,000..	24,439	116	455	779	4,309	6,118	7,561	5,105	(D)	-	-
Value added, adjusted.....do....	32,194	254	1,018	1,392	5,805	7,841	10,099	5,785	(D)	-	-
Value of shipments.....do....	80,640	554	2,968	2,889	12,762	19,631	25,000	16,836	(D)	-	-
Capital expenditures, new...do....	328	16	(D)	11	67	100	108	26	(D)	-	-
INDUSTRY 3161.—LUGGAGE											
Establishments.....number..	379	113	59	62	70	32	39	9	1	-	1
All employees:											
Total.....do....	16,409	231	410	831	2,207	2,150	4,202	6,378	(D)	-	(D)
Payroll.....$1,000..	62,853	701	1,504	3,411	7,669	7,739	15,165	26,664	(D)	-	(D)
Value added, adjusted.....do....	112,796	1,656	2,516	5,806	12,825	12,599	24,965	52,431	(D)	-	(D)
Value of shipments.....do....	210,303	3,219	5,317	11,915	23,602	23,398	54,734	88,118	(D)	-	(D)
Capital expenditures, new...do....	1,908	19	52	49	170	203	524	891	(D)	-	(D)
INDUSTRY 3171.—HANDBAGS AND PURSES											
Establishments.....number..	545	117	62	104	129	61	56	15	1	-	-
All employees:											
Total.....do....	24,548	229	423	1,492	4,287	4,234	8,338	5,545	(D)	-	-
Payroll.....$1,000..	88,455	855	1,372	5,294	15,000	15,740	29,259	20,935	(D)	-	-
Value added, adjusted.....do....	142,554	2,157	2,301	8,225	25,656	24,880	45,353	33,982	(D)	-	-
Value of shipments.....do....	280,343	4,147	5,927	16,256	48,075	49,076	91,984	64,878	(D)	-	-
Capital expenditures, new...do....	1,890	27	35	94	363	320	595	456	(D)	-	-
INDUSTRY 3141.—SHOES, EXCEPT RUBBER											
Establishments.....number..	1,040	125	43	57	110	104	247	288	62	3	1
All employees:											
Total.....do....	201,728	200	301	807	3,514	7,975	41,678	101,685	38,456	7,112	(D)
Payroll.....$1,000..	713,277	717	932	2,779	11,461	27,569	144,430	352,065	141,247	32,377	(D)
Value added, adjusted.....do....	1,214,740	1,234	1,416	4,920	17,448	44,221	225,691	635,816	230,294	53,700	(D)
Value of shipments.....do....	2,249,167	2,826	2,622	9,993	38,264	85,010	422,292	1,154,730	445,585	87,845	(D)
Capital expenditures, new...do....	18,470	24200	48	110	335	722	4,835	9,785	2,157	278	(D)
INDUSTRY 3142.—HOUSE SLIPPERS											
Establishments.....number..	153	32	8	16	30	30	27	9	1	-	-
All employees:											
Total.....do....	11,039	54	52	225	957	2,050	4,127	3,574	(D)	-	-
Payroll.....$1,000..	39,782	217	125	697	3,344	6,765	14,177	14,457	(D)	-	-
Value added, adjusted.....do....	64,555	449	202	1,077	5,426	10,441	21,669	25,291	(D)	-	-
Value of shipments.....do....	123,560	1,452	356	1,993	13,243	18,760	41,684	46,072	(D)	-	-
Capital expenditures, new...do....	1,100	9	(D)	12	279	(D)	448	352	(D)	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3172.—SMALL LEATHER GOODS											
Establishments.....number..	340	106	63	54	56	32	23	1	5	-	-
All employees:											
Total.....do....	12,432	191	425	725	1,583	2,336	3,926	(D)	3,246	-	-
Payroll.....$1,000..	47,352	647	1,510	2,608	5,205	8,762	15,021	(D)	13,599	-	-
Value added, adjusted.....do....	82,385	1,666	2,941	4,864	8,370	14,043	24,884	(D)	25,617	-	-
Value of shipments.....do....	159,013	4,324	7,502	15,544	16,942	29,460	42,542	(D)	42,699	-	-
Capital expenditures, new...do....	1,262	22	61	101	121	173	330	(D)	454	-	-
INDUSTRY 3199.—LEATHER GOODS, N.E.C.											
Establishments.....number..	370	177	63	63	44	18	4	1	-	-	-
All employees:											
Total.....do....	4,989	327	438	846	1,302	1,207	869	(D)	-	-	-
Payroll.....$1,000..	18,742	1,032	1,755	3,074	5,196	4,560	3,125	(D)	-	-	-
Value added, adjusted.....do....	32,730	2,475	3,149	5,468	8,707	7,617	5,314	(D)	-	-	-
Value of shipments.....do....	67,058	4,967	6,234	10,273	17,242	15,783	12,559	(D)	-	-	-
Capital expenditures, new...do....	766	87	111	177	254	66	71	(D)	-	-	-
INDUSTRY 3211.—FLAT GLASS											
Establishments.....number..	31	-	1	-	2	2	1	7	10	8	-
All employees:											
Total.....do....	22,815	-	352	-	(D)	(D)	(D)	2,620	6,944	12,899	-
Payroll.....$1,000..	172,214	-	2,096	-	(D)	(D)	(D)	17,110	52,459	100,549	-
Value added, adjusted.....do....	364,466	-	5,250	-	(D)	(D)	(D)	30,276	110,185	218,755	-
Value of shipments.....do....	549,390	-	8,437	-	(D)	(D)	(D)	40,760	154,674	345,519	-
Capital expenditures, new...do....	28,244	-	117	-	(D)	(D)	(D)	1,989	14,781	11,357	-
INDUSTRY 3221.—GLASS CONTAINERS											
Establishments.....number..	113	5	2	1	1	1	22	43	22	13	3
All employees:											
Total.....do....	59,987	137	(D)	(D)	(D)	(D)	4,108	14,606	16,340	17,050	7,746
Payroll.....$1,000..	327,956	892	(D)	(D)	(D)	(D)	21,473	80,851	89,545	90,859	44,336
Value added, adjusted.....do....	629,608	21	(D)	(D)	(D)	(D)	40,387	171,109	174,541	148,924	94,626
Value of shipments.....do....	1,004,464	1,106	(D)	(D)	(D)	(D)	72,066	281,574	266,921	246,356	136,441
Capital expenditures, new...do....	53,805	[5]13,338	(D)	(D)	(D)	(D)	4,702	18,558	9,015	6,964	1,228
INDUSTRY 3229.—PRESSED AND BLOWN GLASS, N.E.C.											
Establishments.....number..	107	2	4	6	11	10	34	15	15	10	-
All employees:											
Total.....do....	37,999	37	(D)	92	361	689	5,522	5,375	10,339	15,584	-
Payroll.....$1,000..	207,292	181	(D)	423	1,739	3,522	27,131	28,832	57,018	88,446	-
Value added, adjusted.....do....	472,212	292	(D)	560	3,005	8,568	51,461	61,471	170,088	176,767	-
Value of shipments.....do....	630,945	385	(D)	845	3,949	11,327	68,424	82,461	220,714	242,840	-
Capital expenditures, new...do....	22,664	69	(D)	8	69	159	2,144	2,936	8,090	9,189	-
INDUSTRY 3231.—PRODUCTS OF PURCHASED GLASS											
Establishments.....number..	1,044	459	177	159	130	65	41	8	4	1	-
All employees:											
Total.....do....	26,158	852	1,161	2,176	4,133	4,719	6,259	2,894	3,964	(D)	-
Payroll.....$1,000..	138,275	3,560	5,428	10,507	19,386	22,390	30,612	18,161	28,231	(D)	-
Value added, adjusted.....do....	309,734	8,182	10,382	18,306	34,953	41,758	62,594	46,588	86,971	(D)	-
Value of shipments.....do....	627,327	13,159	19,758	34,836	71,192	78,556	129,503	107,646	172,677	(D)	-
Capital expenditures, new...do....	13,223	713	821	1,372	1,521	2,558	2,538	1,252	2,448	(D)	-
INDUSTRY 3241.—CEMENT, HYDRAULIC											
Establishments.....number..	188	5	2	2	7	23	112	31	6	-	-
All employees:											
Total.....do....	34,863	50	(D)	(D)	258	1,874	18,902	9,946	3,833	-	-
Payroll.....$1,000..	227,385	323	(D)	(D)	2,042	12,370	121,807	64,859	25,984	-	-
Value added, adjusted.....do....	785,681	2,116	(D)	(D)	7,123	50,116	436,658	209,738	79,930	-	-
Value of shipments.....do....	1,176,913	4,374	(D)	(D)	10,302	81,238	649,261	311,300	120,438	-	-
Capital expenditures, new...do....	120,843	[25]10,890	(D)	(D)	31,941	12,812	37,421	27,779	(D)	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3251.—BRICK AND STRUCTURAL TILE											
Establishments.....number..	512	42	27	43	179	163	50	7	1	-	-
All employees:											
Total.....do....	28,620	70	186	607	6,234	11,205	7,412	2,906	(D)	-	-
Payroll.....$1,000..	130,378	324	644	2,408	27,858	50,777	35,103	13,264	(D)	-	-
Value added, adjusted.....do....	216,548	699	1,542	3,168	46,467	86,000	58,180	20,492	(D)	-	-
Value of shipments.....do....	325,093	1,217	2,243	5,036	71,976	128,473	87,578	28,570	(D)	-	-
Capital expenditures, new...do....	19,344	[4]2,063	(D)	(D)	4,935	7,023	3,742	1,581	(D)	-	-
INDUSTRY 3253.—CERAMIC WALL AND FLOOR TILE											
Establishments.....number..	90	17	2	7	15	9	27	8	4	1	-
All employees:											
Total.....do....	12,795	33	(D)	90	526	665	4,591	2,639	4,251	(D)	-
Payroll.....$1,000..	63,745	125	(D)	342	2,032	2,657	20,812	12,253	25,524	(D)	-
Value added, adjusted.....do....	110,571	165	(D)	578	3,164	4,090	36,938	23,262	42,374	(D)	-
Value of shipments.....do....	164,668	238	(D)	1,137	4,802	7,226	58,044	36,094	57,127	(D)	-
Capital expenditures, new...do....	9,070	[5]4,440	(D)	(D)	(D)	(D)	1,625	1,240	1,765	(D)	-
INDUSTRY 3255.—CLAY REFRACTORIES											
Establishments.....number..	150	22	8	11	40	30	35	1	2	1	-
All employees:											
Total.....do....	11,431	34	60	147	1,309	2,206	5,435	(D)	2,240	(D)	-
Payroll.....$1,000..	64,822	288	313	731	6,630	12,327	31,321	(D)	13,212	(D)	-
Value added, adjusted.....do....	118,248	246	642	1,829	15,312	21,199	55,538	(D)	23,482	(D)	-
Value of shipments.....do....	192,230	1,065	1,342	3,446	25,690	32,059	90,448	(D)	38,180	(D)	-
Capital expenditures, new...do....	7,936	78	37	1,511	806	1,511	2,541	(D)	1,452	(D)	-
INDUSTRY 3259.—STRUCTURAL CLAY PRODUCTS, N.E.C.											
Establishments.....number..	164	29	10	17	36	24	41	6	1	-	-
All employees:											
Total.....do....	12,188	45	67	243	1,187	1,684	6,403	2,559	(D)	-	-
Payroll.....$1,000..	61,977	241	309	1,062	6,012	8,554	32,450	13,349	(D)	-	-
Value added, adjusted.....do....	108,442	355	676	1,609	10,141	11,508	58,314	25,839	(D)	-	-
Value of shipments.....do....	159,724	637	1,066	2,422	13,940	18,499	85,663	37,497	(D)	-	-
Capital expenditures, new...do....	5,842	46	63	102	604	587	2,873	1,567	(D)	-	-
INDUSTRY 3261.—VITREOUS PLUMBING FIXTURES											
Establishments.....number..	49	2	3	1	4	9	15	12	3	-	-
All employees:											
Total.....do....	9,280	41	(D)	(D)	105	641	2,354	4,427	1,712	-	-
Payroll.....$1,000..	56,794	185	(D)	(D)	418	3,339	13,863	28,205	10,784	-	-
Value added, adjusted.....do....	101,502	320	(D)	(D)	520	5,204	24,079	52,105	19,274	-	-
Value of shipments.....do....	155,658	544	(D)	(D)	850	7,672	41,358	77,712	27,522	-	-
Capital expenditures, new...do....	2,442	8	(D)	(D)	15	637	394	1,124	264	-	-
INDUSTRY 3262.—VITREOUS CHINA FOOD UTENSILS											
Establishments.....number..	31	4	2	4	3	2	6	8	-	2	-
All employees:											
Total.....do....	6,314	7	72	(D)	267	(D)	864	5,104	-	(D)	-
Payroll.....$1,000..	29,552	11	299	(D)	964	(D)	3,585	24,693	-	(D)	-
Value added, adjusted.....do....	42,504	17	488	(D)	1,648	(D)	4,485	35,866	-	(D)	-
Value of shipments.....do....	50,954	22	593	(D)	1,798	(D)	5,968	42,573	-	(D)	-
Capital expenditures, new...do....	724	5	(D)	(D)	37	(D)	52	630	-	(D)	-
INDUSTRY 3263.—FINE EARTHENWARE FOOD UTENSILS											
Establishments.....number..	21	-	1	2	2	1	5	5	3	2	-
All employees:											
Total.....do....	7,349	-	182	(D)	(D)	(D)	819	1,840	4,508	(D)	-
Payroll.....$1,000..	31,614	-	656	(D)	(D)	(D)	3,577	7,992	19,389	(D)	-
Value added, adjusted.....do....	41,046	-	769	(D)	(D)	(D)	4,444	10,618	25,215	(D)	-
Value of shipments.....do....	59,046	-	1,399	(D)	(D)	(D)	6,967	15,386	35,294	(D)	-
Capital expenditures, new...do....	797	-	66	(D)	(D)	(D)	(D)	342	389	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3264.—PORCELAIN ELECTRICAL SUPPLIES											
Establishments.....number..	79	18	4	8	13	12	13	5	5	1	-
All employees:											
Total.....do....	10,170	30	23	101	382	941	2,129	1,557	5,007	(D)	-
Payroll.....$1,000..	57,401	172	94	445	1,977	4,210	11,661	7,808	31,034	(D)	-
Value added, adjusted.....do....	90,001	232	109	561	3,062	7,120	18,318	14,065	46,534	(D)	-
Value of shipments.....do....	131,790	324	212	759	4,500	9,669	28,709	18,931	68,686	(D)	-
Capital expenditures, new...do....	4,142	20	6	93	223	341	684	356	2,419	(D)	-
INDUSTRY 3269.—POTTERY PRODUCTS, N.E.C.											
Establishments.....number..	458	223	94	43	58	23	13	3	1	-	-
All employees:											
Total.....do....	9,085	340	622	590	1,902	1,585	2,164	1,882	(D)	-	-
Payroll.....$1,000..	37,508	951	1,997	2,194	7,644	6,278	8,280	10,164	(D)	-	-
Value added, adjusted.....do....	62,107	2,096	3,699	4,183	12,556	10,579	13,103	15,891	(D)	-	-
Value of shipments.....do....	95,541	3,070	5,600	6,061	17,275	15,901	20,647	26,987	(D)	-	-
Capital expenditures, new...do....	3,064	230	335	173	812	245	575	694	(D)	-	-
INDUSTRY 3271.—CONCRETE BLOCK AND BRICK											
Establishments.....number..	1,841	632	372	470	302	60	5	-	-	-	-
All employees:											
Total.....do....	23,759	1,297	2,524	6,528	8,792	3,987	627	-	-	-	-
Payroll.....$1,000..	119,543	4,637	10,701	31,607	46,386	22,182	4,030	-	-	-	-
Value added, adjusted.....do....	245,525	9,866	23,589	70,294	92,591	42,015	7,170	-	-	-	-
Value of shipments.....do....	505,194	22,264	50,706	143,733	192,435	83,600	12,456	-	-	-	-
Capital expenditures, new...do....	31,143	[4]2,614	3,531	8,561	9,034	6,613	790	-	-	-	-
INDUSTRY 3272.—OTHER CONCRETE PRODUCTS											
Establishments.....number..	3,451	1,553	643	539	475	175	58	7	1	-	-
All employees:											
Total.....do....	52,297	3,116	4,284	7,424	14,645	11,702	8,356	2,770	(D)	-	-
Payroll.....$1,000..	266,706	11,293	18,322	36,413	73,960	64,694	43,419	18,605	(D)	-	-
Value added, adjusted.....do....	539,967	26,947	36,133	73,102	150,255	127,825	97,725	27,980	(D)	-	-
Value of shipments.....do....	925,677	45,633	60,630	120,813	255,259	223,494	167,621	52,227	(D)	-	-
Capital expenditures, new...do....	43,550	[26]4,239	4,443	5,881	11,684	9,579	6,065	1,659	(D)	-	-
INDUSTRY 3273.—READY MIXED CONCRETE											
Establishments.....number..	4,621	1,407	1,067	1,126	784	163	68	5	1	-	-
All employees:											
Total.....do....	71,523	3,241	7,252	15,449	23,178	10,662	9,659	2,082	(D)	-	-
Payroll.....$1,000..	410,539	17,445	36,025	84,505	134,691	61,977	61,906	13,990	(D)	-	-
Value added, adjusted.....do....	981,997	59,074	101,359	213,926	318,758	134,621	131,204	23,055	(D)	-	-
Value of shipments.....do....	2,292,504	149,243	245,176	505,426	730,039	308,157	305,805	48,658	(D)	-	-
Capital expenditures, new...do....	106,010	[11]6,657	11,381	21,175	31,750	13,315	18,341	3,391	(D)	-	-
INDUSTRY 3274.—LIME											
Establishments.....number..	125	26	14	17	25	22	16	4	1	-	-
All employees:											
Total.....do....	6,778	40	93	252	746	1,537	2,133	1,977	(D)	-	-
Payroll.....$1,000..	38,903	211	439	1,376	4,347	8,354	12,114	12,062	(D)	-	-
Value added, adjusted.....do....	95,135	933	1,114	3,413	12,114	20,913	29,882	26,766	(D)	-	-
Value of shipments.....do....	164,366	1,269	1,592	5,913	24,232	37,939	47,935	45,486	(D)	-	-
Capital expenditures, new...do....	14,730	[27]3,936	(D)	(D)	890	2,885	2,759	4,260	(D)	-	-
INDUSTRY 3275.—GYPSUM PRODUCTS											
Establishments.....number..	122	39	9	2	4	14	46	8	-	-	-
All employees:											
Total.....do....	11,491	48	99	(D)	129	1,100	7,542	2,573	-	-	-
Payroll.....$1,000..	70,335	234	471	(D)	634	6,708	46,526	15,762	-	-	-
Value added, adjusted.....do....	259,659	632	1,786	(D)	2,004	23,520	179,319	52,398	-	-	-
Value of shipments.....do....	425,108	1,084	3,093	(D)	4,050	41,484	293,454	81,943	-	-	-
Capital expenditures, new...do....	15,201	[4]3,106	(D)	(D)	(D)	2,374	6,360	3,361	-	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3281.—CUT STONE AND STONE PRODUCTS											
Establishments.....number..	893	365	165	152	137	38	28	6	2	-	-
All employees:											
Total.....do....	18,340	680	1,122	2,026	4,358	2,518	3,820	3,816	(D)	-	-
Payroll.....$1,000..	85,745	2,973	4,637	9,094	21,812	12,623	16,516	18,090	(D)	-	-
Value added, adjusted.....do....	131,465	5,517	8,559	15,925	33,155	16,541	28,269	23,499	(D)	-	-
Value of shipments.....do....	217,176	9,645	14,722	27,976	57,857	27,852	41,958	37,166	(D)	-	-
Capital expenditures, new...do....	6,693	[11]686	576	702	1,148	685	1,813	1,083	(D)	-	-
INDUSTRY 3291.—ABRASIVE PRODUCTS											
Establishments.....number..	378	107	62	60	72	32	26	11	4	1	3
All employees:											
Total.....do....	28,170	182	427	852	2,122	2,148	3,266	3,789	14,784	(D)	(D)
Payroll.....$1,000..	186.971	982	2,380	4,724	11,882	12,274	22,534	22,468	109,677	(D)	(D)
Value added, adjusted.....do....	416,415	2,103	4,734	10,583	25,244	25,329	45,321	62,339	240,762	(D)	(D)
Value of shipments.....do....	704,212	4,549	9,170	19,823	52,322	49,439	84,776	99,314	384,819	(D)	(D)
Capital expenditures, new...do....	15,506	313	529	611	1,189	759	2,095	1,681	8,329	(D)	(D)
INDUSTRY 3292.—ASBESTOS PRODUCTS											
Establishments.....number..	124	17	6	17	10	13	34	21	4	2	-
All employees:											
Total.....do....	19,516	31	42	235	336	978	5,279	7,340	5,275	(D)	-
Payroll.....$1,000..	118,024	167	231	1,172	1,834	5,009	31,485	44,691	33,435	(D)	-
Value added, adjusted.....do....	269.067	181	295	2,247	3,140	10,823	79,637	106,807	65,937	(D)	-
Value of shipments.....do....	509,236	559	652	5,372	6,159	19,573	159,589	213,401	103,931	(D)	-
Capital expenditures, new...do....	12,381	19	24	186	72	291	5,722	4,637	1,430	(D)	-
INDUSTRY 3293.—GASKETS AND INSULATIONS											
Establishments.....number..	295	91	51	42	53	21	22	10	2	3	-
All employees:											
Total.....do....	16,825	160	353	573	1,711	1,464	3,043	3,660	5,861	(D)	-
Payroll.....$1,000..	94,441	931	1,742	3,154	9,534	7,460	16,894	19,909	34,817	(D)	-
Value added, adjusted.....do....	160,734	1,863	3,321	5,020	16,628	14,172	32,101	35,668	51,961	(D)	-
Value of shipments.....do....	279,226	3,665	7,194	10,449	33,709	27,044	54,954	58,353	83,858	(D)	-
Capital expenditures, new...do....	8,865	[7]529	151	194	942	(D)	1,100	2,518	3,431	(D)	-
INDUSTRY 3295.—MINERALS, GROUND OR TREATED											
Establishments.....number..	415	127	89	102	63	22	11	1	-	-	-
All employees:											
Total.....do....	7,330	235	633	1,411	1,895	1,478	1,678	(D)	-	-	-
Payroll.....$1,000..	41,567	1,202	3,016	7,621	10,682	8,892	10,154	(D)	-	-	-
Value added, adjusted.....do....	102,079	3,674	7,427	17,678	26,101	19,740	27,459	(D)	-	-	-
Value of shipments.....do....	204,393	6,940	15,822	37,248	48,317	38,548	57,518	(D)	-	-	-
Capital expenditures, new...do....	11,873	[4]1,791	704	1,542	2,475	1,294	4,067	(D)	-	-	-
INDUSTRY 3296.—MINERAL WOOL											
Establishments.....number..	123	30	9	17	14	22	16	8	5	2	-
All employees:											
Total.....do....	14,733	33	60	228	413	1,584	2,726	2,713	6,976	(D)	-
Payroll.....$1,000..	92,347	216	292	1,226	1,870	8,664	16,280	15,366	48,433	(D)	-
Value added, adjusted.....do....	206,846	399	609	2,317	6,049	19,465	40,726	41,791	95,490	(D)	-
Value of shipments.....do....	391,873	1,220	1,560	5,694	11,906	36,708	65,813	66,945	202,027	(D)	-
Capital expenditures, new...do....	37,956	[5]3,500	(D)	(D)	(D)	15,654	3,801	2,969	12,032	(D)	-
INDUSTRY 3297.—NONCLAY REFRACTORIES											
Establishments.....number..	93	10	6	9	20	21	18	7	2	-	-
All employees:											
Total.....do....	8,572	10	41	126	636	1,429	2,856	3,474	(D)	-	-
Payroll.....$1,000..	53,367	64	257	700	3,702	8,559	17,656	22,429	(D)	-	-
Value added, adjusted.....do....	129,139	192	622	1,685	8,862	22,380	45,074	50,324	(D)	-	-
Value of shipments.....do....	250,195	423	1,119	3,312	17,496	43,388	83,990	100,467	(D)	-	-
Capital expenditures, new...do....	9,346	101	(D)	32	382	1,661	4,367	2,803	(D)	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3299.—NONMETALLIC PRODUCTS, N.E.C.											
Establishments.....number..	320	152	60	52	32	12	8	4	-	-	-
All employees:											
Total.....do....	5,471	203	401	649	994	821	1,125	1,278	-	-	-
Payroll.....$1,000..	27,094	893	1,700	2,980	5,161	3,708	4,947	7,705	-	-	-
Value added, adjusted.....do....	53,289	1,868	3,225	6,325	10,068	6,761	8,865	16,172	-	-	-
Value of shipments.....do....	96,188	3,158	5,675	10,812	17,213	12,604	17,331	29,395	-	-	-
Capital expenditures, new...do....	2,187	63	90	243	245	214	408	924	-	-	-
INDUSTRY 3312.—BLAST FURNACES AND STEEL MILLS											
Establishments.....number..	288	22	9	10	20	6	43	41	40	33	64
All employees:											
Total.....do....	500,550	90	(D)	146	606	377	6,871	15,048	29,186	53,843	394,383
Payroll.....$1,000..	3,711,639	427	(D)	798	3,295	2,021	44,083	105,507	211,609	382,306	2,961,593
Value added, adjusted.....do....	7,699,535	1,002	(D)	1,586	7,430	3,306	98,793	212,287	366,906	691,271	6,316,954
Value of shipments[29].....do....	16,611,083	2,058	(D)	3,122	23,935	8,024	230,770	548,941	959,261	1,984,916	12,850,056
Capital expenditures, new...do....	908,440	[28]55,280	(D)	731	1,279	232	3,026	12,249	27,773	45,779	762,091
Subindustry 3312-11.—Blast Furnaces and Steel Mills—FULLY INTEGRATED WORKS[30]											
Establishments.....number..	34	-	-	-	-	-	-	-	-	1	33
All employees:											
Total.....do....	268,642	-	-	-	-	-	-	-	-	268,642	(D)
Payroll.....$1,000..	2,001,950	-	-	-	-	-	-	-	-	2,001,950	(D)
Value added, adjusted.....do....	4,426,518	-	-	-	-	-	-	-	-	4,426,518	(D)
Value of shipments[29].....do....	8,192,193	-	-	-	-	-	-	-	-	8,192,193	(D)
Capital expenditures, new...do....	431,448	-	-	-	-	-	-	-	-	431,448	(D)
Subindustry 3312-12.—Blast Furnaces and Steel Mills—PARTIALLY INTEGRATED WORKS, WITH BLAST FURNACES[30]											
Establishments.....number..	12	-	-	-	-	-	-	-	1	-	11
All employees:											
Total.....do....	53,262	-	-	-	-	-	-	-	53,262	-	(D)
Payroll.....$1,000..	394,522	-	-	-	-	-	-	-	394,882	-	(D)
Value added, adjusted.....do....	847,471	-	-	-	-	-	-	-	847,471	-	(D)
Value of shipments[29].....do....	1,804,266	-	-	-	-	-	-	-	1,804,266	-	(D)
Capital expenditures, new...do....	219,478	-	-	-	-	-	-	-	219,478	-	(D)
Subindustry 3312-13.—Blast Furnaces and Steel Mills—PARTIALLY INTEGRATED WORKS, WITHOUT BLAST FURNACES[30]											
Establishments.....number..	80	-	-	-	-	2	10	12	21	18	17
All employees:											
Total.....do....	112,025	-	-	-	-	1,924	(D)	4,351	15,509	26,375	63,866
Payroll.....$1,000..	839,299	-	-	-	-	12,315	(D)	29,583	114,603	192,376	490,422
Value added, adjusted.....do....	1,574,020	-	-	-	-	27,190	(D)	51,943	191,140	347,836	955,911
Value of shipments[29].....do....	3,380,122	-	-	-	-	46,661	(D)	108,814	343,926	707,528	2,173,193
Capital expenditures, new...do....	101,300	-	-	-	-	1,280	(D)	2,151	11,009	25,297	61,563
Subindustry 3312-14.—Blast Furnaces and Steel Mills—NONINTEGRATED WORKS[30]											
Establishments.....number..	162	22	9	10	20	4	33	29	18	14	3
All employees:											
Total.....do....	66,621	90	(D)	146	606	5,324	(D)	10,697	49,758	(D)	(D)
Payroll.....$1,000..	475,868	427	(D)	798	3,295	33,789	(D)	75,924	361,635	(D)	(D)
Value added, adjusted.....do....	851,526	1,002	(D)	1,586	7,430	74,909	(D)	160,344	606,255	(D)	(D)
Value of shipments[29].....do....	3,234,562	2,058	(D)	3,122	23,995	192,133	(D)	440,127	2,573,127	(D)	(D)
Capital expenditures, new...do....	156,214	[28]55,280	(D)	731	1,279	1,978	(D)	10,098	86,848	(D)	(D)
INDUSTRY 3313.—ELECTROMETALLURGICAL PRODUCTS[30]											
Establishments.....number..	36	2	-	4	5	2	10	7	3	3	-
All employees:											
Total.....do....	10,437	49	-	(D)	364	(D)	1,622	2,368	6,034	(D)	-
Payroll.....$1,000..	68,880	287	-	(D)	2,405	(D)	10,444	14,750	40,994	(D)	-
Value added, adjusted.....do....	145,503	347	-	(D)	5,996	(D)	25,226	29,736	84,892	(D)	-
Value of shipments[29].....do....	382,132	2,010	-	(D)	16,635	(D)	73,594	91,986	197,907	(D)	-
Capital expenditures, new...do....	13,412	155	-	(D)	391	(D)	5,100	2,913	4,853	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
	INDUSTRY 3315.—STEEL WIRE DRAWING, ETC.[30]										
Establishments.....number..	200	22	24	21	36	35	33	24	4	1	-
All employees:											
Total.....do....	21,280	47	156	312	1,181	2,594	4,732	7,869	4,389	(D)	-
Payroll.....$1,000..	134,636	265	788	1,815	6,196	14,907	27,524	52,326	30,815	(D)	-
Value added, adjusted.....do....	253,009	510	1,560	3,828	15,425	32,071	55,757	97,569	46,289	(D)	-
Value of shipments[31].....do....	592,263	1,277	3,385	11,469	38,537	74,707	139,395	200,213	123,280	(D)	-
Capital expenditures, new...do....	14,002	[20]1,217	(D)	513	926	1,701	3,458	3,977	2,210	(D)	-
	INDUSTRY 3316.—COLD FINISHING OF STEEL SHAPES[30]										
Establishments.....number..	81	6	4	3	15	11	25	11	5	1	-
All employees:											
Total.....do....	13,700	11	30	39	540	786	4,137	3,700	4,457	(D)	-
Payroll.....$1,000..	99,557	99	183	274	3,552	5,679	29,263	26,666	33,841	(D)	-
Value added, adjusted.....do....	223,977	284	323	95	8,165	15,257	74,456	52,625	72,772	(D)	-
Value of shipments[31].....do....	751,627	486	817	1,025	39,308	51,081	223,271	173,049	262,590	(D)	-
Capital expenditures, new...do....	14,925	12	20	(D)	304	995	2,998	2,196	8,400	(D)	
	INDUSTRY 3317.—STEEL PIPE AND TUBE[30]										
Establishments.....number..	141	10	6	10	29	20	40	15	9	2	-
All employees:											
Total.....do....	22,882	19	38	167	954	1,557	6,382	4,668	9,097	(D)	-
Payroll.....$1,000..	153,147	95	223	1,057	5,146	9,451	40,376	32,584	64,215	(D)	-
Value added, adjusted.....do....	295,242	191	442	1,336	16,570	18,117	82,290	65,035	111,255	(D)	-
Value of shipments[31].....do....	809,009	617	961	7,052	31,116	49,870	241,697	209,008	268,688	(D)	-
Capital expenditures, new...do....	23,588	[24]213	(D)	115	1,191	1,649	5,850	4,805	9,765	(D)	-
	INDUSTRY 3321.—GRAY IRON FOUNDRIES										
Establishments.....number..	1,139	143	91	138	279	219	176	56	23	11	3
All employees:											
Total.....do....	120,528	257	625	1,957	9,229	15,297	26,798	19,754	15,727	30,884	(D)
Payroll.....$1,000..	730,279	2,556	2,587	8,287	44,648	79,464	151,279	120,399	96,989	224,070	(D)
Value added, adjusted.....do....	1,168,478	3,573	4,006	13,032	70,373	122,833	237,505	215,350	152,158	349,658	(D)
Value of shipments.....do....	1,984,944	5,162	6,526	19,218	108,460	191,521	398,286	388,124	296,432	571,215	(D)
Capital expenditures, new...do....	64,823	89	185	535	2,240	5,326	13,321	11,298	9,381	22,448	(D)
	INDUSTRY 3322.—MALLEABLE IRON FOUNDRIES										
Establishments.....number..	81	2	4	4	4	9	30	17	8	2	1
All employees:											
Total.....do....	22,297	32	(D)	52	127	658	4,897	5,611	10,920	(D)	(D)
Payroll.....$1,000..	141,967	131	(D)	195	627	3,601	26,635	31,706	79,072	(D)	(D)
Value added, adjusted.....do....	204,557	200	(D)	321	951	5,390	35,764	43,030	118,901	(D)	(D)
Value of shipments.....do....	317,528	278	(D)	408	1,378	7,870	54,630	65,106	187,858	(D)	(D)
Capital expenditures, new...do....	16,283	4	(D)	9	83	237	1,168	2,387	12,395	(D)	(D)
	INDUSTRY 3323.—STEEL FOUNDRIES										
Establishments.....number..	267	20	10	17	42	39	68	40	24	7	-
All employees:											
Total.....do....	56,810	112	(D)	247	1,394	2,754	11,427	13,601	16,903	10,372	-
Payroll.....$1,000..	361,378	1,736	(D)	1,405	7,424	16,337	67,320	85,387	110,250	71,519	-
Value added, adjusted.....do....	586,914	6,292	(D)	2,499	11,521	31,674	113,328	138,464	183,487	99,649	-
Value of shipments.....do....	871,048	6,846	(D)	4,162	17,526	45,618	171,004	205,820	270,084	149,988	-
Capital expenditures, new...do....	27,832	35	(D)	147	456	989	4,549	5,384	8,711	7,561	-
	INDUSTRY 3331.—PRIMARY COPPER										
Establishments.....number..	33	-	-	-	3	1	11	6	8	4	-
All employees:											
Total.....do....	14,949	-	-	-	1,945	(D)	(D)	2,064	5,826	5,114	-
Payroll.....$1,000..	96,134	-	-	-	13,252	(D)	(D)	12,493	36,188	34,201	-
Value added, adjusted.....do....	285,510	-	-	-	64,790	(D)	(D)	45,317	119,034	56,369	-
Value of shipments[1].....do....	1,245,457	-	-	-	367,750	(D)	(D)	241,734	401,768	234,205	-
Capital expenditures, new...do....	13,134	-	-	-	1,989	(D)	(D)	1,143	5,111	4,891	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3332.—PRIMARY LEAD											
Establishments.....number..	10	-	-	-	1	-	4	4	1	-	-
All employees:											
Total.....do....	2,578	-	-	-	2,578	-	(D)	(D)	(D)	-	-
Payroll.....$1,000..	14,997	-	-	-	14,997	-	(D)	(D)	(D)	-	-
Value added, adjusted.....do....	24,876	-	-	-	24,876	-	(D)	(D)	(D)	-	-
Value of shipments[1].....do....	265,072	-	-	-	265,072	-	(D)	(D)	(D)	-	-
Capital expenditures, new...do....	964	-	-	-	964	-	(D)	(D)	(D)	-	-
INDUSTRY 3333.—PRIMARY ZINC											
Establishments.....number..	18	-	-	-	1	1	4	5	5	2	-
All employees:											
Total.....do....	8,065	-	-	-	669	(D)	(D)	1,944	5,452	(D)	-
Payroll.....$1,000..	47,760	-	-	-	3,605	(D)	(D)	11,548	32,607	(D)	-
Value added, adjusted.....do....	98,789	-	-	-	4,837	(D)	(D)	19,610	74,342	(D)	-
Value of shipments.....do....	281,537	-	-	-	25,485	(D)	(D)	69,138	186,914	(D)	
Capital expenditures, new...do....	4,734	-	-	-	981	(D)	(D)	(D)	3,753	(D)	-
INDUSTRY 3334.—PRIMARY ALUMINUM											
Establishments.....number..	23	-	1	-	1	-	-	5	10	6	-
All employees:											
Total.....do....	18,133	-	9,073	-	(D)	-	-	(D)	(D)	9,060	-
Payroll.....$1,000..	134,116	-	66,312	-	(D)	-	-	(D)	(D)	67,804	-
Value added, adjusted.....do....	499,576	-	249,039	-	(D)	-	-	(D)	(D)	250,537	-
Value of shipments.....do....	1,089,977	-	603,906	-	(D)	-	-	(D)	(D)	486,071	-
Capital expenditures, new...do....	62,172	-	54,095	-	(D)	-	-	(D)	(D)	8,076	-
INDUSTRY 3339.—PRIMARY NONFERROUS METALS, N.E.C.											
Establishments.....number..	35	5	2	2	5	6	8	4	3	-	-
All employees:											
Total.....do....	5,064	222	(D)	(D)	(D)	411	1,123	1,309	1,999	-	-
Payroll.....$1,000..	34,807	1,499	(D)	(D)	(D)	2,821	6,965	9,043	14,479	-	-
Value added, adjusted.....do....	103,830	15,939	(D)	(D)	(D)	5,907	15,329	19,826	46,829	-	-
Value of shipments.....do....	212,176	53,862	(D)	(D)	(D)	12,153	32,036	39,601	74,524	-	-
Capital expenditures, new...do....	6,435	600	(D)	(D)	(D)	881	1,201	881	2,872	-	-
INDUSTRY 3341.—SECONDARY NONFERROUS METALS											
Establishments.....number..	459	149	72	59	93	43	38	4	1	-	-
All employees:											
Total.....do....	15,445	310	494	804	3,004	2,960	5,913	1,960	(D)	-	-
Payroll.....$1,000..	96,302	1,685	2,526	4,645	18,512	18,280	37,721	12,933	(D)	-	-
Value added, adjusted.....do....	228,190	5,205	8,442	13,067	63,335	36,768	79,536	21,837	(D)	-	-
Value of shipments.....do....	1,045,522	16,791	20,228	45,816	210,730	179,924	450,922	121,111	(D)	-	-
Capital expenditures, new...do....	17,891	778	363	556	5,054	1,500	7,096	2,544	(D)	-	-
INDUSTRY 3351.—COPPER ROLLING AND DRAWING											
Establishments.....number..	112	9	4	7	15	13	18	21	11	14	-
All employees:											
Total.....do....	38,949	40	(D)	85	507	994	2,881	7,315	7,811	19,316	-
Payroll.....$1,000..	260,320	284	(D)	522	3,159	6,262	18,133	48,995	51,774	131,191	-
Value added, adjusted.....do....	478,393	805	(D)	2,306	6,827	18,242	35,965	90,836	101,216	222,196	-
Value of shipments.....do....	1,657,526	2,340	(D)	5,454	119,017	75,734	151,075	291,144	292,124	720,638	-
Capital expenditures, new...do....	43,462	[3]13,079	(D)	(D)	(D)	(D)	(D)	4,810	3,139	22,434	-
Subindustry 3351-21.—Copper Rolling and Drawing—ESTABLISHMENTS WITH CASTING DEPARTMENT[2]											
Establishments.....number..	36	-	-	-	-	2	5	8	10	11	-
All employees:											
Total.....do....	25,752	-	-	-	-	840	(D)	2,942	21,970	(D)	-
Payroll.....$1,000..	174,972	-	-	-	-	5,371	(D)	20,134	149,467	(D)	-
Value added, adjusted.....do....	305,113	-	-	-	-	11,693	(D)	30,276	263,144	(D)	-
Value of shipments.....do....	985,609	-	-	-	-	33,085	(D)	113,585	838,939	(D)	-
Capital expenditures, new...do....	26,965	-	-	-	-	296	(D)	2,745	23,924	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
Subindustry 3351-22.—Copper Rolling and Drawing—ESTABLISHMENTS WITHOUT CASTING DEPARTMENT[31]											
Establishments.....number..	76	9	4	7	15	11	13	13	1	3	-
All employees:											
Total.....do....	13,197	40	(D)	85	507	3,035	(D)	4,373	5,157	(D)	-
Payroll.....$1,000..	85,343	284	(D)	522	3,159	19,024	(D)	28,861	33,498	(D)	-
Value added, adjusted.....do....	173,280	805	(D)	2,306	6,827	42,514	(D)	60,560	60,268	(D)	-
Value of shipments.....do....	671,917	2,340	(D)	5,454	119,017	193,724	(D)	177,559	173,823	(D)	-
Capital expenditures, new...do....	16,497	[3]12,783	(D)	(D)	(D)	(D)	(D)	2,065	1,649	(D)	-
INDUSTRY 3352.—ALUMINUM ROLLING AND DRAWING											
Establishments.....number..	212	26	19	14	42	32	37	17	9	11	5
All employees:											
Total.....do....	54,263	56	128	188	1,442	2,317	5,948	6,051	5,590	32,543	(D)
Payroll.....$1,000..	376,647	242	691	926	7,998	13,078	34,682	42,335	35,534	241,161	(D)
Value added, adjusted.....do....	721,171	1,481	2,506	3,674	18,622	28,244	71,008	73,839	86,105	435,692	(D)
Value of shipments.....do....	2,196,439	2,188	4,710	9,928	57,946	87,526	232,737	279,742	238,842	1,282,820	(D)
Capital expenditures, new...do....	81,282	[7]446	87	191	2,112	2,768	4,866	9,247	7,834	53,731	(D)
Subindustry 3352-11.—Aluminum Rolling and Drawing—ESTABLISHMENTS OPERATED BY PRIMARY (INTEGRATED) PRODUCERS[32]											
Establishments.....number..	44	1	-	-	3	3	5	12	4	11	5
All employees:											
Total.....do....	40,183	258	-	-	(D)	(D)	838	6,544	(D)	32,543	(D)
Payroll.....$1,000..	293,862	1,605	-	-	(D)	(D)	5,036	46,060	(D)	241,161	(D)
Value added, adjusted.....do....	547,840	2,014	-	-	(D)	(D)	14,227	95,907	(D)	435,692	(D)
Value of shipments.....do....	1,711,616	10,691	-	-	(D)	(D)	59,595	358,510	(D)	1,282,820	(D)
Capital expenditures, new...do....	64,735	[7]936	-	-	(D)	(D)	639	9,429	(D)	53,731	(D)
Subindustries 3352-12 and-13.—Aluminum Rolling and Drawing—ESTABLISHMENTS OPERATED BY NONINTEGRATED PRODUCERS[32]											
Establishments.....number..	168	25	19	14	39	29	32	5	5	-	-
All employees:											
Total.....do....	14,080	3,873	(D)	(D)	(D)	(D)	5,110	5,097	(D)	-	-
Payroll.....$1,000..	82,785	21,330	(D)	(D)	(D)	(D)	29,646	31,809	(D)	-	-
Value added, adjusted.....do....	173,331	52,513	(D)	(D)	(D)	(D)	56,781	64,037	(D)	-	-
Value of shipments.....do....	484,823	151,607	(D)	(D)	(D)	(D)	173,142	160,074	(D)	-	-
Capital expenditures, new...do....	16,547	4,668	(D)	(D)	(D)	(D)	4,227	7,652	(D)	-	-
INDUSTRY 3356.—ROLLING AND DRAWING, N.E.C.											
Establishments.....number..	125	26	15	17	19	16	17	6	6	2	1
All employees:											
Total.....do....	17,375	52	103	256	632	1,088	2,565	2,170	4,586	5,923	(D)
Payroll.....$1,000..	117,454	330	623	1,674	3,636	6,116	16,556	15,552	29,405	43,562	(D)
Value added, adjusted.....do....	250,589	886	2,181	5,609	7,147	12,458	30,729	36,603	71,995	82,981	(D)
Value of shipments.....do....	640,962	3,982	4,963	33,892	30,580	59,033	85,093	113,142	142,079	168,198	(D)
Capital expenditures, new...do....	22,154	47	68	134	503	512	1,678	1,241	2,320	15,651	(D)
INDUSTRY 3357.—NONFERROUS WIRE DRAWING, ETC.											
Establishments.....number..	299	36	11	25	57	29	67	44	23	7	-
All employees:											
Total.....do....	56,418	126	(D)	341	1,949	1,993	10,507	15,191	16,158	10,153	-
Payroll.....$1,000..	339,935	729	(D)	1,690	11,066	10,119	60,783	92,114	98,839	64,595	-
Value added, adjusted.....do....	677,525	1,429	(D)	4,430	26,366	18,926	127,438	183,139	201,503	114,304	-
Value of shipments.....do....	2,117,943	3,584	(D)	10,378	79,744	64,800	398,430	640,801	591,892	328,314	-
Capital expenditures, new...do....	44,478	133	(D)	230	1,450	2,227	8,052	8,821	10,987	12,578	-
Subindustry 3357-11.—Nonferrous Wire Drawing, etc.—WIRE DRAWING ESTABLISHMENTS WITH ROD MILL											
Establishments.....number..	32	-	-	-	2	2	16	7	4	1	-
All employees:											
Total.....do....	9,258	-	-	-	189	(D)	2,508	2,683	3,878	(D)	-
Payroll.....$1,000..	57,042	-	-	-	1,155	(D)	14,768	17,639	23,480	(D)	-
Value added, adjusted.....do....	133,749	-	-	-	2,005	(D)	34,629	48,681	48,434	(D)	-
Value of shipments.....do....	498,611	-	-	-	9,382	(D)	108,680	234,692	145,857	(D)	-
Capital expenditures, new...do....	7,643	-	-	-	595	(D)	3,038	1,703	2,307	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
Subindustry 3357-12.—Nonferrous Wire Drawing, etc.—WIRE DRAWING ESTABLISHMENTS WITHOUT ROD MILL OR INSULATING											
Establishments.....number..	41	3	3	5	6	8	12	3	1	-	-
All employees:											
Total.....do....	4,359	21	(D)	274	(D)	539	1,791	1,734	(D)	-	-
Payroll.....$1,000..	27,807	138	(D)	1,618	(D)	2,873	11,054	12,124	(D)	-	-
Value added, adjusted.....do....	50,923	301	(D)	3,418	(D)	7,286	18,828	21,090	(D)	-	-
Value of shipments.....do....	147,864	638	(D)	10,777	(D)	21,595	75,142	39,712	(D)	-	-
Capital expenditures, new...do....	6,447	26	(D)	394	(D)	924	1,155	3,948	(D)	-	-
Subindustry 3357-13.—Nonferrous Wire Drawing, etc.— WIRE DRAWING ESTABLISHMENTS WITHOUT ROD MILL BUT WITH INSULATING											
Establishments.....number..	72	-	-	2	6	6	18	18	16	6	-
All employees:											
Total.....do....	30,347	-	-	662	(D)	(D)	3,033	6,233	20,419	(D)	-
Payroll.....$1,000..	187,718	-	-	3,334	(D)	(D)	17,014	38,953	128,417	(D)	-
Value added, adjusted.....do....	350,789	-	-	6,431	(D)	(D)	37,973	58,552	247,833	(D)	-
Value of shipments.....do....	1,083,475	-	-	28,153	(D)	(D)	131,528	198,940	724,854	(D)	-
Capital expenditures, new...do....	24,064	-	-	420	(D)	(D)	1,871	3,664	18,109	(D)	-
Subindustry 3357-14.—Nonferrous Wire Drawing, etc.— WIRE INSULATING ESTABLISHMENTS WITH NEITHER ROD MILL NOR INSULATING											
Establishments.....number..	154	33	8	18	43	13	21	16	2	-	-
All employees:											
Total.....do....	12,454	105	(D)	247	1,436	936	3,175	6,555	(D)	-	-
Payroll.....$1,000..	67,368	591	(D)	1,204	8,253	4,438	17,947	34,935	(D)	-	-
Value added, adjusted.....do....	142,074	1,131	(D)	3,457	20,061	7,061	36,008	74,356	(D)	-	-
Value of shipments.....do....	387,993	2,946	(D)	7,303	53,282	24,430	83,080	216,952	(D)	-	-
Capital expenditures, new...do....	6,324	107	(D)	166	782	626	1,988	2,655	(D)	-	-
INDUSTRY 3361.—ALUMINUM CASTINGS											
Establishments.....number..	954	292	173	168	179	73	39	21	6	3	-
All employees:											
Total.....do....	36,216	550	1,164	2,300	5,527	5,397	6,240	6,964	4,611	3,463	-
Payroll.....$1,000..	222,771	2,425	5,544	11,547	29,318	29,842	37,003	45,496	34,823	26,773	-
Value added, adjusted.....do....	343,863	5,049	9,553	18,279	46,082	50,931	60,412	60,864	59,171	33,522	-
Value of shipments.....do....	640,193	8,699	16,101	32,190	82,686	90,251	111,302	119,103	110,615	69,246	-
Capital expenditures, new...do....	18,374	273	397	662	2,284	1,987	3,898	1,968	3,105	3,800	-
INDUSTRY 3362.—BRASS, BRONZE, COPPER CASTINGS											
Establishments.....number..	549	119	97	140	128	35	21	8	1	-	-
All employees:											
Total.....do....	15,341	236	659	1,957	3,837	2,289	3,029	3,334	(D)	-	-
Payroll.....$1,000..	86,350	1,192	3,280	9,851	20,625	12,977	17,695	20,730	(D)	-	-
Value added, adjusted.....do....	144,092	2,327	5,451	15,189	32,403	23,396	30,915	34,411	(D)	-	-
Value of shipments.....do....	287,534	4,054	9,913	31,149	68,060	52,889	60,166	61,303	(D)	-	-
Capital expenditures, new...do....	5,394	132	163	428	1,327	661	805	1,878	(D)	-	-
INDUSTRY 3369.—NONFERROUS CASTINGS, N.E.C.											
Establishments.....number..	391	102	55	69	77	48	24	13	3	-	-
All employees:											
Total.....do....	17,686	164	392	976	2,573	3,388	3,902	6,291	(D)	-	-
Payroll.....$1,000..	102,929	986	1,926	4,926	13,462	19,089	22,302	40,238	(D)	-	-
Value added, adjusted.....do....	168,530	1,974	4,178	8,267	23,546	32,693	36,308	61,564	(D)	-	-
Value of shipments.....do....	302,731	3,548	7,313	14,733	45,746	60,850	64,151	106,390	(D)	-	-
Capital expenditures, new...do....	6,803	194	287	517	1,157	1,541	1,574	1,533	(D)	-	-
INDUSTRY 3391.—IRON AND STEEL FORGINGS											
Establishments.....number..	272	32	20	31	65	43	46	22	8	4	1
All employees:											
Total.....do....	36,317	56	133	419	2,753	3,155	7,207	7,369	5,116	10,109	(D)
Payroll.....$1,000..	259,793	360	773	2,477	18,687	23,220	50,373	51,940	36,835	75,128	(D)
Value added, adjusted.....do....	395,302	696	1,528	4,148	27,489	41,629	82,390	74,656	53,194	109,572	(D)
Value of shipments.....do....	868,948	1,274	2,617	8,363	66,810	87,523	175,981	175,902	114,518	235,960	(D)
Capital expenditures, new...do....	17,516	37	89	195	1,031	2,195	2,032	3,229	2,026	6,682	(D)

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3392.—NONFERROUS FORGINGS											
Establishments.....number..	34	3	2	10	4	7	3	2	-	3	-
All employees:											
Total.....do....	6,297	19	(D)	136	115	571	1,249	(D)	-	4,207	-
Payroll.....$1,000..	47,627	113	(D)	778	782	4,172	9,332	(D)	-	32,450	-
Value added, adjusted.....do....	71,378	167	(D)	1,583	1,436	7,328	15,049	(D)	-	45,815	-
Value of shipments.....do....	165,146	451	(D)	2,909	2,581	17,548	33,288	(D)	-	108,369	-
Capital expenditures, new...do....	4,704	23	(D)	23	107	222	944	(D)	-	3,385	-
INDUSTRY 3399.—PRIMARY METAL INDUSTRIES, N.E.C.											
Establishments.....number..	754	209	151	176	152	46	18	2	-	-	-
All employees:											
Total.....do....	14,956	377	1,044	2,428	4,676	2,991	3,440	(D)	-	-	-
Payroll.....$1,000..	94,704	2,394	6,521	14,327	30,226	18,650	22,586	(D)	-	-	-
Value added, adjusted.....do....	192,250	5,440	13,608	27,321	59,307	38,580	47,994	(D)	-	-	-
Value of shipments.....do....	284,661	8,183	18,941	37,189	85,102	63,932	71,314	(D)	-	-	-
Capital expenditures, new...do....	13,501	542	924	1,464	4,103	2,739	3,729	(D)	-	-	-
INDUSTRY 3411.—METAL CANS											
Establishments.....number..	270	22	16	26	46	47	44	39	24	6	-
All employees:											
Total.....do....	53,245	26	116	381	1,519	3,400	6,857	31,776	(D)	9,170	-
Payroll.....$1,000..	377,031	133	672	2,314	9,013	21,874	45,619	230,105	(D)	67,301	-
Value added, adjusted.....do....	830,515	272	3,254	8,004	31,539	72,408	137,995	470,174	(D)	106,869	-
Value of shipments.....do....	2,075,014	780	7,039	22,637	87,384	202,277	359,604	1,129,649	(D)	265,644	-
Capital expenditures, new...do....	66,507	[5]4,324	240	1,118	2,332	4,635	12,470	31,353	(D)	10,035	-
INDUSTRY 3421.—CUTLERY											
Establishments.....number..	161	44	21	29	23	17	18	4	4	1	-
All employees:											
Total.....do....	11,837	65	132	378	710	1,246	2,882	1,521	4,903	(D)	-
Payroll.....$1,000..	64,281	258	712	1,769	3,399	5,327	14,283	7,274	31,259	(D)	-
Value added, adjusted.....do....	213,998	791	1,234	3,311	5,494	8,917	24,116	15,056	155,079	(D)	-
Value of shipments.....do....	383,352	1,215	1,757	5,612	9,287	14,083	36,617	23,121	191,660	(D)	-
Capital expenditures, new...do....	12,382	13	52	56	178	256	447	841	10,539	(D)	-
INDUSTRY 3423.—HAND AND EDGE TOOLS											
Establishments.....number..	716	279	102	80	123	54	49	18	10	1	-
All employees:											
Total.....do....	31,480	514	690	1,082	3,770	3,705	7,649	5,904	8,166	(D)	-
Payroll.....$1,000..	176,837	2,163	3,329	5,558	18,992	20,138	42,440	35,614	48,603	(D)	-
Value added, adjusted.....do....	364,265	5,142	6,480	11,330	34,598	41,719	85,758	83,338	95,900	(D)	-
Value of shipments.....do....	565,590	8,530	10,799	17,776	55,880	60,963	136,479	132,891	142,272	(D)	-
Capital expenditures, new...do....	10,955	205	160	278	1,347	1,211	3,197	1,989	2,568	(D)	-
INDUSTRY 3425.—HAND SAWS AND SAW BLADES											
Establishments.....number..	76	11	12	11	20	10	7	3	2	-	-
All employees:											
Total.....do....	5,095	108	(D)	148	615	656	1,196	2,372	(D)	-	-
Payroll.....$1,000..	29,148	652	(D)	665	3,420	3,488	7,879	13,044	(D)	-	-
Value added, adjusted.....do....	65,634	988	(D)	1,143	7,180	6,793	17,453	32,077	(D)	-	-
Value of shipments.....do....	102,782	1,759	(D)	1,780	10,554	9,600	27,476	51,613	(D)	-	-
Capital expenditures, new...do....	6,340	[5]5,195	(D)	(D)	(D)	(D)	640	505	(D)	-	-
INDUSTRY 3429.—HARDWARE, N.E.C.											
Establishments.....number..	1,069	322	140	161	179	104	94	41	13	11	4
All employees:											
Total.....do....	88,142	471	962	2,128	5,754	7,270	15,097	13,716	8,778	33,966	(D)
Payroll.....$1,000..	529,217	2,145	4,612	11,079	29,653	37,288	79,745	75,596	51,511	237,588	(D)
Value added, adjusted.....do....	1,063,661	5,122	9,374	20,760	57,130	73,623	158,272	136,472	102,182	500,726	(D)
Value of shipments.....do....	1,785,134	10,198	18,373	39,126	107,796	136,103	285,869	244,082	150,493	793,094	(D)
Capital expenditures, new...do....	70,959	[4]2,242	560	997	2,639	3,814	5,584	5,915	6,370	42,838	(D)

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3431.—METAL PLUMBING FIXTURES											
Establishments.....number..	81	18	10	8	13	11	8	7	4	2	-
All employees:											
Total.....do....	11,011	25	73	108	424	835	1,442	2,723	5,381	(D)	-
Payroll.....$1,000..	68,162	162	444	520	1,966	5,264	7,875	17,923	34,008	(D)	-
Value added, adjusted.....do....	139,859	308	919	1,087	3,623	16,068	16,769	32,649	68,436	(D)	-
Value of shipments.....do....	234,896	716	2,720	2,539	7,885	26,123	30,335	55,869	108,709	(D)	-
Capital expenditures, new...do....	5,863	24	104	187	84	509	521	1,782	2,652	(D)	-
INDUSTRY 3432.—PLUMBING FITTINGS, BRASS GOODS											
Establishments.....number..	250	78	35	35	32	30	27	7	5	1	-
All employees:											
Total.....do....	15,129	131	234	483	992	2,060	4,151	2,241	4,837	(D)	-
Payroll.....$1,000..	79,336	631	1,060	2,450	5,014	9,972	21,761	11,593	26,855	(D)	-
Value added, adjusted.....do....	154,752	1,267	2,143	5,569	11,282	18,437	45,744	21,169	49,141	(D)	-
Value of shipments.....do....	333,832	2,830	4,978	12,129	21,220	41,426	105,294	39,321	106,634	(D)	-
Capital expenditures, new...do....	6,542	71	76	145	512	695	1,231	312	3,500	(D)	-
INDUSTRY 3433.—HEATING EQUIPMENT, EXCEPT ELECTRIC											
Establishments.....number..	648	186	79	103	102	64	65	38	10	1	-
All employees:											
Total.....do....	42,020	335	539	1,441	3,300	4,582	10,778	12,995	8,050	(D)	-
Payroll.....$1,000..	243,857	1,470	2,523	7,638	17,976	25,638	61,101	75,702	51,809	(D)	-
Value added, adjusted.....do....	495,652	3,423	4,676	14,899	32,456	49,798	129,829	152,217	108,354	(D)	-
Value of shipments.....do....	1,019,787	7,248	9,861	33,473	72,215	109,298	258,208	330,631	198,853	(D)	-
Capital expenditures, new...do....	17,815	41,927	148	377	1,176	1,158	4,313	5,172	3,544	(D)	-
INDUSTRY 3441.—FABRICATED STRUCTURAL STEEL											
Establishments.....number..	1,718	273	262	366	430	192	142	35	13	4	1
All employees:											
Total.....do....	85,423	519	1,818	5,131	13,219	13,304	22,544	12,493	7,636	8,759	(D)
Payroll.....$1,000..	527,220	2,907	10,221	30,337	80,884	85,237	135,769	78,449	48,607	54,809	(D)
Value added, adjusted.....do....	814,805	7,286	18,803	49,119	133,618	141,728	225,512	112,407	61,953	64,379	(D)
Value of shipments.....do....	1,916,048	14,056	38,069	104,861	294,820	319,855	557,576	302,730	146,641	137,440	(D)
Capital expenditures, new...do....	28,162	357	808	2,113	4,598	4,177	5,995	4,455	3,970	1,689	(D)
INDUSTRY 3442.—METAL DOOR, SASH, AND TRIM											
Establishments.....number..	1,817	528	310	351	338	145	104	31	9	1	-
All employees:											
Total.....do....	62,799	1,076	2,140	4,921	10,484	10,035	16,217	10,887	7,039	(D)	-
Payroll.....$1,000..	324,796	4,814	10,244	22,636	51,659	51,639	80,499	63,488	39,817	(D)	-
Value added, adjusted.....do....	570,370	10,274	18,690	40,685	90,443	95,412	141,670	99,565	73,631	(D)	-
Value of shipments.....do....	1,253,814	24,404	43,913	95,301	218,726	209,709	310,791	211,276	139,694	(D)	-
Capital expenditures, new....do....	21,305	491	644	1,322	3,790	3,797	4,780	3,008	3,473	(D)	-
INDUSTRY 3443.—BOILER SHOP PRODUCTS											
Establishments.....number..	1,383	314	208	260	304	154	94	21	24	2	2
All employees:											
Total.....do....	75,018	617	1,427	3,669	9,724	10,587	14,511	7,573	26,910	(D)	(D)
Payroll.....$1,000..	465,372	4,181	7,386	20,829	58,069	64,093	87,709	48,132	174,973	(D)	(D)
Value added, adjusted.....do....	770,064	9,078	13,423	35,159	98,252	106,477	136,738	83,015	287,922	(D)	(D)
Value of shipments.....do....	1,622,988	16,028	25,609	70,529	215,064	234,997	312,278	180,852	567,631	(D)	(D)
Capital expenditures, new....do....	32,910	42,003	557	1,242	4,093	4,878	7,712	2,892	9,533	(D)	(D)
INDUSTRY 3444.—SHEET METAL WORK											
Establishments.....number..	3,250	1,305	587	603	478	177	80	15	5	-	-
All employees:											
Total.....do....	61,651	2,395	3,891	8,215	14,653	12,204	11,542	5,403	3,348	-	-
Payroll.....$1,000..	373,284	12,258	21,000	46,513	88,985	74,708	71,427	33,049	25,344	-	-
Value added, adjusted.....do....	632,384	25,036	37,769	82,759	146,261	124,024	115,315	64,111	37,109	-	-
Value of shipments.....do....	1,303,670	45,046	72,241	163,883	298,021	245,049	244,930	133,905	100,595	-	-
Capital expenditures, new....do....	26,180	1,347	1,508	3,105	5,459	4,348	3,757	5,107	1,549	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3446.—ARCHITECTURAL METAL WORK											
Establishments.....number..	1,334	853	179	129	107	39	22	4	1	-	-
All employees:											
Total.....do....	15,587	1,553	1,115	1,768	3,246	2,711	2,979	2,215	(D)	-	-
Payroll.....$1,000..	86,956	7,075	5,564	9,623	18,313	15,750	17,317	13,314	(D)	-	-
Value added, adjusted.....do....	148,763	16,222	10,527	16,393	30,484	27,101	29,711	18,325	(D)	-	-
Value of shipments.....do....	269,256	27,844	18,271	28,161	55,153	50,932	53,519	35,376	(D)	-	-
Capital expenditures, new....do....	6,102	667	491	595	1,225	907	1,655	562	(D)	-	-
INDUSTRY 3449.—MISCELLANEOUS METAL WORK, N.E.C.											
Establishments.....number..	697	266	84	101	120	62	45	14	5	-	-
All employees:											
Total.....do....	24,992	412	569	1,437	3,819	4,401	6,884	4,663	2,807	-	-
Payroll.....$1,000..	145,042	2,507	2,777	7,396	20,568	24,599	41,275	29,501	16,419	-	-
Value added, adjusted.....do....	283,427	5,357	5,535	14,288	37,097	46,688	96,407	50,150	27,905	-	-
Value of shipments.....do....	704,166	10,099	11,642	29,739	111,597	131,251	233,407	114,290	62,141	-	-
Capital expenditures, new....do....	11,475	246	264	449	1,780	1,673	4,036	1,657	1,370	-	-
INDUSTRY 3451.—SCREW MACHINE PRODUCTS											
Establishments.....number..	1,874	608	328	422	346	116	46	8	-	-	-
All employees:											
Total.....do....	36,909	1,057	2,229	5,830	10,502	7,963	6,753	2,575	-	-	-
Payroll.....$1,000..	213,172	5,452	11,366	31,971	60,033	48,913	40,371	15,066	-	-	-
Value added, adjusted.....do....	358,961	13,287	20,293	56,402	105,075	78,041	61,632	24,231	-	-	-
Value of shipments.....do....	588,981	21,695	33,577	91,103	173,081	134,136	95,571	39,818	-	-	-
Capital expenditures, new...do....	18,676	782	1,171	2,533	5,395	3,609	2,991	2,195	-	-	-
INDUSTRY 3452.—BOLTS, NUTS, RIVETS, AND WASHERS											
Establishments.....number..	573	90	63	97	123	65	80	25	23	6	1
All employees:											
Total.....do....	57,618	182	412	1,371	3,877	4,420	12,377	9,167	15,615	10,197	(D)
Payroll.....$1,000..	371,026	1,276	2,407	7,636	23,834	27,946	76,303	61,025	101,650	68,949	(D)
Value added, adjusted.....do....	695,276	3,774	6,052	14,410	49,518	58,900	146,223	119,659	186,071	110,669	(D)
Value of shipments.....do....	1,218,247	6,352	11,697	30,004	96,059	116,533	278,275	197,610	304,646	177,071	(D)
Capital expenditures, new...do....	31,431	261	775	966	3,364	2,530	9,367	4,570	5,815	3,783	(D)
INDUSTRY 3461.—METAL STAMPINGS											
Establishments.....number..	2,574	577	407	474	553	265	202	65	19	11	1
All employees:											
Total.....do....	132,179	1,118	2,732	6,676	17,243	18,374	31,563	22,433	12,409	19,631	(D)
Payroll.....$1,000..	772,557	6,996	13,736	35,330	97,725	105,312	177,532	130,595	76,263	129,068	(D)
Value added, adjusted.....do....	1,368,993	14,086	28,542	63,442	166,820	184,470	309,134	233,602	118,725	250,172	(D)
Value of shipments.....do....	2,678,996	25,994	45,995	118,363	303,546	352,695	613,575	490,631	255,180	473,017	(D)
Capital expenditures, new...do....	64,248	42,804	1,217	2,494	7,669	8,355	11,912	11,951	8,310	9,536	(D)
INDUSTRY 3471.—PLATING AND POLISHING											
Establishments.....number..	3,023	1,148	597	601	504	133	36	4	-	-	-
All employees:											
Total.....do....	44,962	2,036	4,027	8,433	15,376	9,024	4,973	1,093	-	-	-
Payroll.....$1,000..	223,504	10,082	19,280	41,751	76,785	45,694	23,948	5,964	-	-	-
Value added, adjusted.....do....	370,202	18,568	33,273	68,652	124,261	76,877	40,053	8,518	-	-	-
Value of shipments.....do....	517,572	24,433	44,110	91,892	171,920	112,238	59,729	13,250	-	-	-
Capital expenditures, new...do....	20,032	1,082	1,598	3,184	7,649	4,190	1,768	561	-	-	-
INDUSTRY 3479.—METAL COATING, ENGRAVING, ETC.											
Establishments.....number..	1,258	548	230	204	178	67	25	5	1	-	-
All employees:											
Total.....do....	20,669	916	1,510	2,729	5,321	4,606	3,498	2,089	(D)	-	-
Payroll.....$1,000..	107,110	4,089	6,971	13,168	27,058	24,035	19,717	12,072	(D)	-	-
Value added, adjusted.....do....	184,546	9,380	12,311	23,403	45,457	42,678	31,385	19,932	(D)	-	-
Value of shipments.....do....	322,139	12,993	16,891	31,919	67,339	76,050	71,430	45,517	(D)	-	-
Capital expenditures, new...do....	8.656	444	541	942	1,991	2,189	1,537	1,012	(D)	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3481.—FABRICATED METAL PRODUCTS, N.E.C.											
Establishments.....number..	1,567	517	250	243	281	134	109	24	9	-	-
All employees:											
Total.....do....	55,514	1,009	1,701	3,326	8,759	9,127	16,423	8,425	6,744	-	-
Payroll.....$1,000..	297,626	5,230	7,850	15,338	43,034	46,168	87,408	49,759	42,839	-	-
Value added, adjusted.....do....	539,137	10,481	20,396	28,371	80,125	82,194	155,199	98,424	63,947	-	-
Value of shipments.....do....	1,030,876	20,632	35,374	53,333	158,759	165,949	298,764	183,801	114,264	-	-
Capital expenditures, new...do....	24,795	[20]1,112	1,113	1,294	3,984	3,163	7,263	4,593	2,273	-	-
INDUSTRY 3491.—METAL BARRELS, DRUMS, AND PAILS											
Establishments.....number..	145	22	14	16	27	29	31	6	-	-	-
All employees:											
Total.....do....	10,508	40	96	233	863	2,095	5,109	2,072	-	-	-
Payroll.....$1,000..	66,614	185	402	1,227	4,480	12,431	33,515	14,374	-	-	-
Value added, adjusted.....do....	119,617	354	740	2,652	8,951	22,488	63,023	21,409	-	-	-
Value of shipments.....do....	303,423	921	2,217	7,136	25,683	69,505	147,900	50,061	-	-	-
Capital expenditures, new...do....	6,412	15	33	151	564	1,482	3,149	1,018	-	-	-
INDUSTRY 3492.—SAFES AND VAULTS											
Establishments.....number..	32	10	4	3	8	4	1	-	-	2	-
All employees:											
Total.....do....	3,346	12	25	3,309	(D)	(D)	(D)	-	-	(D)	-
Payroll.....$1,000..	21,782	90	152	21,540	(D)	(D)	(D)	-	-	(D)	-
Value added, adjusted.....do....	56,223	214	358	55,651	(D)	(D)	(D)	-	-	(D)	-
Value of shipments.....do....	78,012	358	531	77,123	(D)	(D)	(D)	-	-	(D)	-
Capital expenditures, new...do....	1,794	6	18	1,770	(D)	(D)	(D)	-	-	(D)	-
INDUSTRY 3493.—STEEL SPRINGS											
Establishments.....number..	96	19	10	18	19	11	14	3	2	-	-
All employees:											
Total.....do....	6,287	22	73	251	587	749	2,307	2,298	(D)	-	-
Payroll.....$1,000..	41,321	137	387	1,593	3,344	4,849	14,967	16,044	(D)	-	-
Value added, adjusted.....do....	69,305	259	822	2,945	6,161	8,918	24,718	25,482	(D)	-	-
Value of shipments.....do....	157,704	415	1,693	4,909	10,419	16,472	59,963	63,833	(D)	-	-
Capital expenditures, new...do....	1,962	8	9	37	113	371	1,011	413	(D)	-	-
INDUSTRY 3494.—VALVES AND PIPE FITTINGS											
Establishments.....number..	646	105	70	97	108	84	92	49	30	11	-
All employees:											
Total.....do....	80,407	157	481	1,392	3,601	6,025	14,662	17,137	21,136	15,816	-
Payroll.....$1,000..	500,009	895	2,798	8,102	21,326	35,636	87,790	107,960	135,944	99,558	-
Value added, adjusted.....do....	942,700	1,942	5,127	17,318	40,924	70,205	176,765	200,320	254,467	175,632	-
Value of shipments.....do....	1,588,509	3,561	9,753	29,771	75,176	124,931	322,349	325,887	417,370	279,721	-
Capital expenditures, new...do....	38,951	[20]795	213	603	2,244	2,717	9,052	7,699	8,893	6,735	-
INDUSTRY 3496.—COLLAPSIBLE TUBES											
Establishments.....number..	24	4	-	1	4	5	5	1	4	-	-
All employees:											
Total.....do....	3,984	16	-	(D)	166	391	1,243	(D)	2,168	-	-
Payroll.....$1,000..	18,804	45	-	(D)	680	1,870	5,685	(D)	10,524	-	-
Value added, adjusted.....do....	30,562	79	-	(D)	1,310	2,693	9,559	(D)	16,921	-	-
Value of shipments.....do....	51,027	165	-	(D)	2,050	4,773	16,428	(D)	27,611	-	-
Capital expenditures, new...do....	1,925	27	-	(D)	(D)	97	704	(D)	1,097	-	-
INDUSTRY 3497.—METAL FOIL AND LEAF											
Establishments.....number..	67	10	9	8	16	12	6	5	1	-	-
All employees:											
Total.....do....	4,981	14	65	114	479	915	867	2,527	(D)	-	-
Payroll.....$1,000..	32,438	75	402	670	2,926	5,432	5,888	17,045	(D)	-	-
Value added, adjusted.....do....	63,486	164	974	1,760	7,011	9,328	12,732	31,517	(D)	-	-
Value of shipments.....do....	180,567	594	3,011	4,962	18,869	23,493	28,860	100,778	(D)	-	-
Capital expenditures, new...do....	6,410	14	13	120	738	696	512	4,317	(D)	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3498.—FABRICATED PIPE AND FITTINGS											
Establishments.....number..	349	92	51	60	80	33	25	5	3	-	-
All employees:											
Total.....do....	13,007	124	355	806	2,488	2,286	3,774	1,486	1,688	-	-
Payroll.....$1,000..	79,077	981	2,022	4,528	13,676	13,434	24,370	9,634	10,442	-	-
Value added, adjusted.....do....	144,599	1,782	4,517	8,071	24,708	25,962	42,992	16,763	19,803	-	-
Value of shipments.....do....	305,640	4,006	7,635	16,684	62,705	52,000	84,711	39,315	38,584	-	-
Capital expenditures, new...do....	5,099	84	141	292	1,236	589	1,790	525	442	-	-
INDUSTRY 3499.—FABRICATED METAL PRODUCTS, N.E.C.											
Establishments.....number..	1,277	469	222	240	211	93	31	8	3	-	-
All employees:											
Total.....do....	28,302	873	1,516	3,285	6,427	6,443	5,099	2,773	1,886	-	-
Payroll.....$1,000..	151,919	3,767	7,234	17,237	32,771	36,274	26,490	16,647	11,499	-	-
Value added, adjusted.....do....	299,326	8,473	14,062	32,824	59,818	86,447	48,509	28,099	21,094	-	-
Value of shipments.....do....	573,185	16,300	25,628	59,913	114,460	171,145	99,986	54,058	31,695	-	-
Capital expenditures, new...do....	16,189	[5]3,237	801	1,841	2,923	2,823	1,507	2,059	998	-	-
INDUSTRY 3511.--STEAM ENGINES AND TURBINES											
Establishments.....number..	22	-	-	1	-	5	4	1	2	5	4
All employees:											
Total.....do....	30,917	-	-	408	-	(D)	2,148	(D)	(D)	28,361	(D)
Payroll.....$1,000..	237,519	-	-	2,420	-	(D)	13,298	(D)	(D)	221,801	(D)
Value added, adjusted.....do....	379,875	-	-	3,439	-	(D)	23,004	(D)	(D)	353,432	(D)
Value of shipments.....do....	616,416	-	-	6,202	-	(D)	41,743	(D)	(D)	568,471	(D)
Capital expenditures, new...do....	19,394	-	-	50	-	(D)	891	(D)	(D)	18,453	(D)
INDUSTRY 3519.--INTERNAL COMBUSTION ENGINES											
Establishments.....number..	143	35	11	16	18	9	17	10	7	15	5
All employees:											
Total.....do....	55,687	62	78	238	555	641	2,743	4,144	5,405	21,868	19,953
Payroll.....$1,000..	371,800	465	326	1,257	3,392	3,420	18,014	26,121	32,212	147,545	139,048
Value added, adjusted.....do....	733,628	822	637	1,863	5,273	8,916	30,536	61,058	54,519	273,002	297,002
Value of shipments.....do....	1,473,574	1,411	1,171	3,644	10,619	21,488	69,000	140,107	126,875	518,417	580,842
Capital expenditures, new...do....	34,751	25	37	80	235	313	1,163	2,166	3,043	13,210	14,479
INDUSTRY 3522.--FARM MACHINERY AND EQUIPMENT											
Establishments.....number..	1,568	526	237	247	264	143	80	30	21	12	8
All employees:											
Total.....do....	112,614	833	1,606	3,415	8,007	10,050	12,829	10,283	15,987	19,509	30,095
Payroll.....$1,000..	689,122	4,068	7,220	15,966	40,222	50,445	67,024	60,266	102,133	132,006	209,772
Value added, adjusted.....do....	1,328,381	6,017	13,754	30,197	84,467	107,077	142,100	112,768	229,639	232,051	370,311
Value of shipments.....do....	2,842,243	20,808	30,248	64,392	175,525	222,654	310,993	271,393	473,475	499,359	773,396
Capital expenditures, new...do....	64,431	[5]4,310	739	1,424	3,661	4,011	5,537	4,216	7,045	7,287	26,201
INDUSTRY 3531.—CONSTRUCTION MACHINERY											
Establishments.....number..	617	148	76	88	94	66	69	30	28	11	7
All employees:											
Total.....do....	104,520	219	501	1,216	3,004	4,717	11,682	10,365	21,082	15,935	35,799
Payroll.....$1,000..	683,728	1,611	2,993	7,391	18,259	29,151	73,914	63,528	136,178	107,996	242,707
Value added, adjusted.....do....	1,301,266	2,811	4,801	14,202	33,741	54,598	134,415	116,206	302,784	138,207	499,501
Value of shipments.....do....	2,696,039	7,053	10,442	27,600	74,119	112,081	283,059	268,724	613,153	359,392	940,416
Capital expenditures, new...do....	56,227	134	189	490	1,778	2,375	5,678	5,750	8,998	7,749	23,086
INDUSTRY 3532.—MINING MACHINERY AND EQUIPMENT											
Establishments.....number..	204	57	23	31	40	20	18	7	7	1	-
All employees:											
Total.....do....	16,910	95	158	440	1,325	1,385	2,979	2,577	7,951	(D)	-
Payroll.....$1,000..	109,531	692	996	2,800	8,223	8,548	18,884	16,307	53,081	(D)	-
Value added, adjusted.....do....	215,406	1,260	1,838	5,585	15,904	21,436	38,852	26,538	103,993	(D)	-
Value of shipments.....do....	417,616	2,589	2,998	10,755	30,510	35,285	72,656	57,135	205,688	(D)	-
Capital expenditures, new...do....	6,847	39	53	148	532	682	1,537	514	3,342	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3533.—OIL FIELD MACHINERY											
Establishments.....number..	408	122	50	60	68	42	36	22	5	2	1
All employees:											
Total.....do....	29,203	164	345	803	2,056	2,902	5,890	8,304	3,595	5,144	(D)
Payroll.....$1,000..	184,288	1,010	1,970	4,682	13,314	17,621	37,087	51,694	22,002	34,908	(D)
Value added, adjusted.....do....	398,152	2,295	4,241	12,474	27,138	38,113	75,062	114,348	44,175	80,306	(D)
Value of shipments.....do....	666,532	3,916	7,864	18,450	49,895	63,899	144,571	189,547	76,319	112,071	(D)
Capital expenditures, new...do....	11,321	152	152	316	973	1,324	2,666	3,064	1,440	1,234	(D)
INDUSTRY 3534.— ELEVATORS AND MOVING STAIRWAYS											
Establishments.....number..	142	28	23	17	33	17	13	7	1	3	-
All employees:											
Total.....do....	12,393	41	160	247	1,007	1,146	2,016	7,776	(D)	(D)	-
Payroll.....$1,000..	88,389	323	1,076	1,734	7,101	7,823	13,064	57,268	(D)	(D)	-
Value added, adjusted.....do....	201,527	705	1,977	3,201	14,318	15,756	23,754	141,816	(D)	(D)	-
Value of shipments.....do....	318,616	1,360	3,556	5,239	25,737	25,094	43,489	214,141	(D)	(D)	-
Capital expenditures, new...do....	3,315	[12]103	58	58	256	424	382	2,034	(D)	(D)	-
INDUSTRY 3535.—CONVEYORS											
Establishments.....number..	454	143	65	71	88	34	33	13	7	-	-
All employees:											
Total.....do....	20,778	279	470	988	2,742	2,227	4,866	4,796	4,410	-	-
Payroll.....$1,000..	140,617	1,581	2,712	5,970	17,470	14,492	31,382	36,945	30,065	-	-
Value added, adjusted.....do....	270,475	2,984	5,650	10,555	29,518	26,066	65,778	69,388	60,536	-	-
Value of shipments.....do....	494,632	5,616	10,599	19,084	56,715	51,469	128,254	115,877	107,018	-	-
Capital expenditures, new...do....	6,125	[19]149	178	413	997	834	1,721	1,079	754	-	-
INDUSTRY 3536.—HOISTS, CRANES, AND MONORAILS											
Establishments.....number..	120	25	19	20	23	13	9	6	4	1	-
All employees:											
Total.....do....	9,585	30	129	295	783	852	1,657	2,114	3,725	(D)	-
Payroll.....$1,000..	64,301	204	819	2,103	4,907	5,702	11,380	12,349	26,837	(D)	-
Value added, adjusted.....do....	112,327	278	1,639	3,273	9,664	9,557	20,219	25,594	42,103	(D)	-
Value of shipments.....do....	220,015	607	2,805	6,496	18,005	18,485	41,930	43,102	88,585	(D)	-
Capital expenditures, new...do....	2,644	11	48	62	160	318	451	811	783	(D)	-
INDUSTRY 3537.—INDUSTRIAL TRUCKS AND TRACTORS											
Establishments.....number..	314	95	51	60	54	28	12	6	5	3	-
All employees:											
Total.....do....	17,570	163	348	814	1,794	1,896	1,975	1,866	3,621	5,093	-
Payroll.....$1,000..	110,444	792	1,495	4,680	9,515	10,449	12,025	10,636	23,626	37,226	-
Value added, adjusted.....do....	233,116	1,574	3,604	7,801	18,722	20,592	22,683	28,619	52,270	77,251	-
Value of shipments.....do....	446,957	3,777	6,904	16,441	36,575	40,963	49,456	46,034	95,808	150,999	-
Capital expenditures, new...do....	6,696	143	184	349	644	905	411	702	1,225	2,133	-
INDUSTRY 3541.—METAL-CUTTING MACHINE TOOLS											
Establishments.....number..	801	276	127	129	118	56	44	22	15	11	3
All employees:											
Total.....do....	61,058	529	840	1,803	3,607	3,727	6,912	7,713	10,664	15,534	9,729
Payroll.....$1,000..	438,222	3,047	4,866	11,398	24,119	26,871	49,483	59,073	77,549	114,965	66,851
Value added, adjusted.....do....	699,341	5,797	8,069	17,964	41,249	43,193	86,921	94,119	137,004	161,967	103,058
Value of shipments.....do....	1,060,818	9,508	12,382	29,092	66,044	70,342	140,576	149,473	200,593	241,544	141,264
Capital expenditures, new...do....	28,837	298	283	705	1,304	1,949	3,170	3,367	5,573	8,453	3,091
INDUSTRY 3542.—METAL-FORMING MACHINE TOOLS											
Establishments.....number..	366	99	64	57	64	40	23	9	7	3	-
All employees:											
Total.....do....	22,078	185	455	809	2,036	2,728	3,708	3,536	4,919	3,702	-
Payroll.....$1,000..	161,669	1,188	2,671	4,975	14,577	18,695	25,861	27,227	37,457	29,018	-
Value added, adjusted.....do....	281,287	2,824	4,563	8,663	24,190	33,571	46,532	44,731	72,948	43,265	-
Value of shipments.....do....	441,419	3,944	7,563	13,269	37,676	52,289	85,484	65,216	104,924	71,054	-
Capital expenditures, new...do....	10,792	169	171	327	758	1,361	3,328	1,471	2,055	1,152	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3544.—SPECIAL DIES AND TOOLS											
Establishments.....number..	5,896	2,300	1,238	1,225	830	200	79	17	5	2	-
All employees:											
Total.....do....	90,860	4,241	8,475	16,756	24,802	13,501	11,327	5,819	5,939	(D)	-
Payroll.....$1,000..	682,739	25,209	54,215	115,457	187,314	105,640	94,493	45,884	54,527	(D)	-
Value added, adjusted.....do....	1,029,338	54,804	88,245	177,034	278,004	156,459	139,011	61,984	73,797	(D)	-
Value of shipments.....do....	1,388,794	75,717	117,304	234,716	378,749	210,012	192,350	86,274	93,672	(D)	-
Capital expenditures, new...do....	53,343	4,776	5,244	9,562	14,429	7,738	6,087	2,647	2,860	(D)	-
INDUSTRY 3545.—MACHINE TOOL ACCESSORIES											
Establishments.....number..	1,038	321	193	177	165	85	59	25	7	6	-
All employees:											-
Total.....do....	46,994	555	1,326	2,517	5,128	5,887	9,379	8,559	5,435	8,208	-
Payroll.....$1,000..	312,799	3,018	7,626	15,893	36,785	38,158	60,751	57,608	36,195	56,765	-
Value added, adjusted.....do....	559,258	6,949	13,897	26,641	63,679	67,321	105,315	108,321	58,084	109,051	-
Value of shipments.....do....	787,338	10,458	20,009	38,019	90,759	98,985	149,318	146,648	78,628	154,514	-
Capital expenditures, new...do....	22,784	355	457	1,040		3,033	4,227	4,188	2,167	4,394	-
INDUSTRY 3548.—METALWORKING MACHINERY, N.E.C.											
Establishments.....number..	435	137	70	60	60	39	31	14	15	9	-
All employees:											-
Total.....do....	38,012	290	476	811	1,822	2,634	4,804	5,152	9,702	12,321	-
Payroll.....$1,000..	246,242	1,350	2,498	4,716	12,160	17,397	30,524	36,591	63,720	77,286	-
Value added, adjusted.....do....	468,435	3,154	4,259	8,956	21,458	32,366	59,873	71,379	111,190	155,800	-
Value of shipments.....do....	796,327	5,220	7,167	14,807	36,736	52,405	108,328	111,721	206,310	253,633	-
Capital expenditures, new...do....	20,957	274	216	394	1,002	1,232	2,214	3,387	6,918	5,320	-
INDUSTRY 3551.—FOOD PRODUCTS MACHINERY											
Establishments.....number..	681	202	105	95	142	61	53	14	8	1	-
All employees:											
Total.....do....	31,684	398	717	1,327	4,610	4,350	7,791	5,134	7,357	(D)	-
Payroll.....$1,000..	205,368	2,065	4,059	8,370	28,580	26,836	48,815	33,783	52,860	(D)	-
Value added, adjusted.....do....	380,406	4,548	7,355	15,654	47,407	50,795	88,289	54,158	112,200	(D)	-
Value of shipments.....do....	640,507	8,502	12,826	28,279	81,331	88,744	155,304	95,761	169,760	(D)	-
Capital expenditures, new....do....	11,031	132	161	359	1,066	1,555	2,957	2,517	2,284	(D)	-
INDUSTRY 3552.—TEXTILE MACHINERY											
Establishments.....number..	561	159	92	94	116	40	34	15	4	5	2
All employees:											
Total.....do....	36,004	295	627	1,334	3,651	2,869	5,482	5,101	2,589	14,056	(D)
Payroll.....$1,000..	196,379	1,470	2,948	6,821	18,864	14,323	29,505	29,177	12,865	80,406	(D)
Value added, adjusted.....do....	314,190	2,039	5,589	11,808	31,220	24,813	48,729	45,841	24,917	119,234	(D)
Value of shipments.....do....	542,684	4,702	9,397	21,896	52,904	44,205	85,950	86,900	37,184	199,546	(D)
Capital expenditures, new....do....	13,870	125	192	379	1,188	611	2,041	1,932	1,153	6,249	(D)
INDUSTRY 3553.—WOODWORKING MACHINERY											
Establishments.....number..	249	72	47	39	40	27	15	7	1	1	-
All employees:											
Total.....do....	12,057	110	321	593	1,240	1,835	2,520	5,438	(D)	(D)	-
Payroll.....$1,000..	72,928	800	1,640	3,303	7,386	11,645	16,097	32,057	(D)	(D)	-
Value added, adjusted.....do....	146,998	2,025	3,230	7,153	12,131	20,110	23,193	126,167	(D)	(D)	-
Value of shipments.....do....	252,762	4,243	6,072	13,002	21,684	38,420	43,174	126,167	(D)	(D)	-
Capital expenditures, new....do....	4,720	95	94	234	290	1,242	726	2,039	(D)	(D)	-
INDUSTRY 3554.—PAPER INDUSTRIES MACHINERY											
Establishments.....number..	217	53	32	40	36	15	19	16	5	-	1
All employees:											
Total.....do....	18,605	103	215	566	1,208	1,025	3,171	5,528	6,789	-	(D)
Payroll.....$1,000..	130,614	667	1,237	3,494	7,867	6,829	22,438	39,877	48,205	-	(D)
Value added, adjusted.....do	217,475	922	2,057	6,339	12,508	10,632	37,422	66,622	80,973	-	(D)
Value of shipments.....uo....	403,925	1,784	3,309	9,688	22,196	18,933	68,022	116,581	163,412	-	(D)
Capital expenditures, new....do....	10,349	57	68	211	451	475	1,526	3,266	4,295	-	(D)

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3555.—PRINTING TRADES MACHINERY											
Establishments.....number..	490	191	86	77	62	24	26	15	8	1	-
All employees:											
Total.....do....	22,952	360	605	1,103	1,945	1,528	4,223	5,208	7,980	(D)	-
Payroll.....$1,000..	159,407	2,188	3,532	6,998	12,693	9,814	28,445	35,880	59,857	(D)	-
Value added, adjusted.....do....	285,879	5,244	6,458	12,920	23,468	20,331	51,016	61,711	104,731	(D)	-
Value of shipments.....do....	448,398	8,255	10,081	20,788	38,933	32,139	76,126	101,755	160,321	(D)	-
Capital expenditures, new....do....	8,911	149	147	337	526	490	2,068	1,935	3,259	(D)	-
INDUSTRY 3559.—SPECIAL INDUSTRY MACHINERY, N.E.C.											
Establishments.....number..	1,092	324	191	189	189	96	62	23	12	6	-
All employees:											
Total.....do....	50,226	611	1,287	2,589	6,022	6,538	9,453	8,003	7,847	7,876	-
Payroll.....$1,000..	330,127	3,221	7,206	15,361	38,519	42,711	60,204	53,333	54,244	55,328	-
Value added, adjusted.....do....	572,236	6,867	13,629	28,840	68,179	77,435	100,038	10,468	89,515	80,314	-
Value of shipments.....do....	1,015,014	12,908	23,319	48,963	123,540	132,835	190,948	194,965	152,061	135,475	-
Capital expenditures, new....do....	22,533	310	511	983	2,285	2,502	6,770	2,881	2,656	3,636	-
INDUSTRY 3561.—PUMPS AND COMPRESSORS											
Establishments.....number..	642	198	77	100	93	47	61	38	17	10	1
All employees:											
Total.....do....	61,322	336	499	1,361	2,953	3,356	9,932	13,256	11,332	18,297	(D)
Payroll.....$1,000..	395,769	1,673	2,708	7,409	18,466	20,899	61,891	84,939	73,641	124,143	(D)
Value added, adjusted.....do....	768,787	3,715	5,423	15,331	36,659	44,762	129,437	167,692	154,906	210,862	(D)
Value of shipments.....do....	1,419,081	7,455	10,475	30,836	67,340	83,066	241,587	305,129	262,335	410,858	(D)
Capital expenditures, new...do....	28,417	179	205	413	727	1,776	4,305	6,359	5,633	8,820	(D)
INDUSTRY 3562.—BALL AND ROLLER BEARINGS											
Establishments.....number..	125	13	4	15	15	16	20	12	15	10	5
All employees:											
Total.....do....	52,316	45	(D)	235	542	1,143	2,863	4,107	10,513	14,783	18,085
Payroll.....$1,000..	348,700	271	(D)	1,286	3,263	6,309	17,681	30,359	69,185	103,201	117,145
Value added, adjusted.....do....	627,694	389	(D)	2,562	5,374	13,735	32,891	50,456	132,670	188,363	201,254
Value of shipments.....do....	998,784	679	(D)	4,152	9,423	22,445	57,635	77,433	221,688	275,638	329,691
Capital expenditures, new...do....	39,243	35	(D)	353	251	3,525	3,449	4,671	7,648	9,051	10,260
INDUSTRY 3564.—BLOWERS AND FANS											
Establishments.....number..	237	70	35	35	31	29	21	10	4	2	-
All employees:											
Total.....do....	15,244	128	231	459	968	2,067	3,035	3,577	4,779	(D)	-
Payroll.....$1,000..	94,090	788	1,212	2,615	5,789	12,091	18,261	23,058	30,276	(D)	-
Value added, adjusted.....do....	180,801	1,513	2,224	4,773	10,479	26,678	39,092	50,185	45,857	(D)	-
Value of shipments.....do....	315,285	3,428	4,415	8,563	17,196	48,201	67,590	83,256	82,636	(D)	-
Capital expenditures, new...do....	6,979	83	51	173	360	937	861	1,885	2,629	(D)	-
INDUSTRY 3565.—INDUSTRIAL PATTERNS											
Establishments.....number..	1,209	683	238	182	80	19	6	-	1	-	-
All employees:											
Total.....do....	9,914	1,209	1,555	2,425	2,327	1,236	1,162	-	(D)	-	-
Payroll.....$1,000..	75,605	7,941	10,667	17,378	17,888	11,051	10,680	-	(D)	-	-
Value added, adjusted.....do....	112,587	16,354	16,496	25,504	24,028	14,711	15,494	-	(D)	-	-
Value of shipments.....do....	140,696	21,640	20,753	31,821	30,492	18,438	17,552	-	(D)	-	-
Capital expenditures, new...do....	3,794	538	365	453	772	1,501	165	-	(D)	-	-
INDUSTRY 3566.—POWER TRANSMISSION EQUIPMENT											
Establishments.....number..	532	129	65	66	112	61	52	29	10	7	1
All employees:											
Total.....do....	46,670	261	456	948	3,558	4,337	8,354	10,053	6,549	12,154	(D)
Payroll.....$1,000..	303,314	1,571	2,686	5,764	22,282	26,525	52,669	64,359	45,488	81,970	(D)
Value added, adjusted.....do....	555,710	3,111	5,459	10,303	38,041	46,157	101,593	116,555	83,270	151,221	(D)
Value of shipments.....do....	888,641	5,729	8,184	17,362	62,388	78,044	159,944	189,344	139,340	228,306	(D)
Capital expenditures, new...do....	26,444	230	148	403	1,778	1,500	4,705	6,665	4,144	6,871	(D)

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963 –Continued

Item	Establishments, total	Establishments with an average of– 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3567.—INDUSTRIAL FURNACES AND OVENS											
Establishments.....number..	238	68	37	40	37	20	25	8	3	-	-
All employees:											
Total.....do....	12,118	100	253	577	1,068	1,474	3,656	3,008	1,982	-	-
Payroll.....$1,000..	83,738	722	1,855	3,927	7,174	9,718	25,421	21,437	13,484	-	-
Value added, adjusted.....do....	143,009	1,592	3,498	6,485	11,152	18,106	40,362	37,934	23,880	-	-
Value of shipments.....do....	279,058	2,947	6,429	13,505	22,909	33,599	80,432	72,679	46,559	-	-
Capital expenditures, new...do....	4,561	38	55	140	156	470	1,192	1,885	625	-	-
INDUSTRY 3569.—GENERAL INDUSTRY MACHINES, N.E.C.											
Establishments.....number..	777	230	113	157	131	75	49	12	7	2	1
All employees:											
Total.....do....	35,559	452	757	2,178	4,068	5,069	7,529	4,320	4,286	6,900	(D)
Payroll.....$1,000..	240,816	2,311	4,349	12,581	24,530	32,219	47,565	27,201	26,758	63,302	(D)
Value added, adjusted.....do....	424,084	4,675	8,955	22,596	47,722	74,905	86,585	56,257	51,332	71,057	(D)
Value of shipments.....do....	691,280	8,715	14,820	40,079	84,210	118,637	141,470	88,487	77,449	117,413	(D)
Capital expenditures, new...do....	15,102	[11]213	213	838	1,414	2,716	2,740	1,748	2,044	3,176	(D)
INDUSTRY 3571.—COMPUTING AND RELATED MACHINES											
Establishments.....number..	248	54	23	32	36	23	25	24	10	11	10
All employees:											
Total.....do....	96,370	76	151	448	1,139	1,622	3,988	8,792	7,592	16,965	55,597
Payroll.....$1,000..	703,231	544	1,118	2,908	7,100	11,683	26,312	54,416	42,212	113,598	443,340
Value added, adjusted.....do....	1,101,484	1,353	1,874	5,373	10,971	19,662	43,237	89,421	122,933	245,750	560,910
Value of shipments.....do....	2,019,714	1,731	2,760	7,288	18,498	29,349	61,800	141,158	247,757	370,811	1,138,562
Capital expenditures, new...do....	92,628	62	94	211	464	747	2,112	4,405	3,292	36,627	44,614
INDUSTRY 3572.—TYPEWRITERS											
Establishments.....number..	21	2	1	2	4	-	2	1	2	4	3
All employees:											
Total.....do....	18,023	41	(D)	(D)	421	-	(D)	1,901	(D)	6,417	9,243
Payroll.....$1,000..	102,885	160	(D)	(D)	4,750	-	(D)	9,075	(D)	32,408	58,867
Value added, adjusted.....do....	243,190	364	(D)	(D)	2,083	-	(D)	27,861	(D)	79,516	133,366
Value of shipments.....do....	515,385	562	(D)	(D)	3,869	-	(D)	32,472	(D)	102,027	176,455
Capital expenditures, new...do....	9,576	22	(D)	(D)	53	-	(D)	503	(D)	1,664	7,334
INDUSTRY 3576.—SCALES AND BALANCES											
Establishments.....number..	85	32	9	9	14	6	10	2	2	1	-
All employees:											
Total.....do....	5,765	46	57	117	489	406	1,573	3,077	(D)	(D)	-
Payroll.....$1,000..	35,052	328	339	812	3,002	2,634	9,186	18,751	(D)	(D)	-
Value added, adjusted.....do....	64,362	659	803	1,499	5,444	4,299	21,465	30,193	(D)	(D)	-
Value of shipments.....do....	98,491	1,021	1,226	2,670	9,471	6,779	32,642	44,682	(D)	(D)	-
Capital expenditures, new...do....	1,149	13	10	13	93	126	436	458	(D)	(D)	-
INDUSTRY 3579.—OFFICE MACHINES, N.E.C.											
Establishments.....number..	161	44	21	21	29	18	12	9	3	3	1
All employees:											
Total.....do....	16,980	55	133	282	925	1,237	2,077	2,892	1,984	7,395	(D)
Payroll.....$1,000..	104,053	299	822	1,515	5,149	6,758	11,169	16,662	10,484	51,195	(D)
Value added, adjusted.....do....	224,654	732	1,306	2,371	8,443	12,087	21,708	23,256	17,789	136,962	(D)
Value of shipments.....do....	349,210	1,188	2,097	4,548	14,650	19,457	33,002	38,744	29,808	205,716	(D)
Capital expenditures, new...do....	16,257	466	(D)	162	423	614	939	818	504	12,331	(D)
INDUSTRY 3581.—AUTOMATIC VENDING MACHINES											
Establishments.....number..	158	44	20	26	24	20	13	5	4	2	-
All employees:											
Total.....do....	11,672	86	126	369	808	1,474	2,072	1,777	4,960	(D)	-
Payroll.....$1,000..	64,791	372	511	1,751	4,321	7,089	10,775	9,164	30,808	(D)	-
Value added, adjusted.....do....	121,365	752	703	3,443	7,285	10,264	20,331	23,774	54,813	(D)	-
Value of shipments.....do....	238,000	1,436	1,352	7,922	13,085	22,909	41,895	51,266	98,135	(D)	-
Capital expenditures, new...do....	3,479	77	86	252	345	407	843	996	473	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3582.—COMMERCIAL LAUNDRY EQUIPMENT											
Establishments.....number..	115	35	13	9	27	13	12	3	3	-	-
All employees:											
Total.....do....	6,542	65	91	133	820	930	1,733	2,770	(D)	-	-
Payroll.....$1,000..	37,929	384	518	768	4,988	5,422	9,360	16,489	(D)	-	-
Value added, adjusted.....do....	70,771	740	958	1,871	10,836	11,318	16,001	29,047	(D)	-	-
Value of shipments.....do....	136,757	1,575	2,307	3,179	21,896	20,278	34,967	52,555	(D)	-	-
Capital expenditures, new...do....	2,487	20	20	35	209	190	380	1,633	(D)	-	-
INDUSTRY 3585.—REFRIGERATION MACHINERY											
Establishments.....number..	698	163	94	94	132	79	70	33	24	5	4
All employees:											
Total.....do....	72,330	280	639	1,289	4,092	5,304	10,484	11,912	16,347	8,248	13,735
Payroll.....$1,000..	432,583	1,422	3,311	7,048	22,356	31,344	58,695	67,952	95,887	50,240	94,328
Value added, adjusted.....do....	892,686	3,093	5,677	13,861	46,988	55,687	121,662	134,583	221,256	103,318	186,561
Value of shipments[1].....do....	1,928,001	6,980	12,368	29,699	93,936	117,711	247,339	316,292	450,680	224,975	428,021
Capital expenditures, new...do....	33,471	147	163	467	1,461	1,905	3,797	7,325	9,974	2,656	5,576
INDUSTRY 3586.—MEASURING AND DISPENSING PUMPS											
Establishments.....number..	43	7	2	7	8	3	7	4	5	-	-
All employees:											
Total.....do....	6,768	30	(D)	97	440	(D)	830	1,452	3,919	-	-
Payroll.....$1,000..	41,732	160	(D)	541	2,497	(D)	4,996	8,576	24,962	-	-
Value added, adjusted.....do....	91,713	140	(D)	1,171	4,379	(D)	11,577	24,357	50,089	-	-
Value of shipments.....do....	159,487	459	(D)	1,843	8,021	(D)	18,927	46,227	84,010	-	-
Capital expenditures, new...do....	2,604	12	(D)	33	140	(D)	227	457	1,735	-	-
INDUSTRY 3589.—SERVICE INDUSTRY MACHINES, N.E.C.											
Establishments.....number..	506	181	107	76	61	43	30	6	2	-	-
All employees:											
Total.....do....	15,257	302	682	1,033	2,074	3,100	4,834	3,232	(D)	-	-
Payroll.....$1,000..	96,834	1,770	3,420	6,496	13,297	18,142	30,416	23,293	(D)	-	-
Value added, adjusted.....do....	192,379	3,561	6,810	11,356	28,308	37,378	62,942	42,024	(D)	-	-
Value of shipments.....do....	378,300	6,832	13,446	24,664	51,401	72,124	122,501	87,332	(D)	-	-
Capital expenditures, new...do....	5,278	139	196	283	734	1,117	1,683	1,126	(D)	-	-
INDUSTRY 3599.—MISCELLANEOUS MACHINERY											
Establishments.....number..	12,090	6,535	2,316	1,837	1,051	216	97	19	12	6	1
All employees:											
Total.....do....	135,820	11,357	15,538	24,687	30,970	14,419	14,361	6,265	7,971	10,252	(D)
Payroll.....$1,000..	793,629	54,485	81,969	141,130	189,669	87,352	90,590	35,294	45,626	67,514	(D)
Value added, adjusted.....do....	1,366,327	110,617	143,033	231,942	297,169	140,132	156,482	65,799	83,593	137,560	(D)
Value of shipments.....do....	2,036,299	165,566	202,832	328,149	433,804	220,763	248,179	101,168	137,893	197,945	(D)
Capital expenditures, new...do....	71,729	9,862	9,044	12,421	14,888	7,487	6,196	4,176	2,488	5,167	(D)
INDUSTRY 3611.—ELECTRIC MEASURING INSTRUMENTS											
Establishments.....number..	560	193	90	68	71	54	45	24	8	5	2
All employees:											
Total.....do....	44,715	326	608	900	2,210	3,621	7,330	9,058	5,520	15,142	(D)
Payroll.....$1,000..	273,645	1,820	3,183	5,264	12,714	21,589	43,013	52,342	32,226	101,494	(D)
Value added, adjusted.....do....	505,309	3,320	4,992	8,859	22,144	34,899	78,856	89,619	72,439	190,181	(D)
Value of shipments.....do....	749,220	5,587	8,075	13,202	34,459	58,720	115,724	139,819	105,851	267,783	(D)
Capital expenditures, new...do....	19,207	1,396	312	435	963	1,744	2,400	3,162	1,733	7,062	(D)
INDUSTRY 3612.—TRANSFORMERS											
Establishments.....number..	177	30	25	23	30	21	23	7	9	7	2
All employees:											
Total.....do....	33,365	69	163	332	922	1,376	3,575	2,441	6,610	17,877	(D)
Payroll.....$1,000..	20[illegible],514	289	817	1,573	4,135	7,058	18,671	13,259	37,820	125,892	(D)
Value added, adjusted.....do....	381,514	477	1,209	2,072	8,683	13,300	39,074	42,494	64,452	209,753	(D)
Value of shipments.....do....	722,896	892	2,370	3,894	16,916	28,618	76,047	69,133	148,222	376,804	(D)
Capital expenditures, new...do....	13,161	35	68	87	249	397	910	1,305	3,325	6,785	(D)

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3613.—SWITCHGEAR AND SWITCHBOARDS											
Establishments.....number..	400	93	40	53	78	42	42	20	20	9	3
All employees:											
Total.....do....	54,045	168	281	732	2,521	3,097	6,326	7,359	12,973	12,454	8,134
Payroll.....$1,000..	338,860	946	1,680	4,509	16,060	18,304	34,799	42,273	75,692	80,925	63,672
Value added, adjusted.....do....	647,838	1,826	2,929	7,697	32,772	36,171	83,398	84,510	125,803	176,136	96,586
Value of shipments.....do....	1,093,743	3,848	6,034	14,346	69,223	71,430	151,326	139,497	227,942	245,285	164,812
Capital expenditures, new...do....	18,180	57	68	126	849	1,869	1,267	1,775	5,035	3,607	3,427
INDUSTRY 3621.—MOTORS AND GENERATORS											
Establishments.....number..	384	72	34	34	49	33	68	39	34	17	4
All employees:											
Total.....do....	94,170	109	237	498	1,546	2,260	11,209	13,563	23,776	24,940	16,032
Payroll.....$1,000..	583,225	745	1,095	2,409	7,337	13,062	58,023	68,955	138,973	165,899	126,727
Value added, adjusted.....do....	993,207	1,160	1,773	4,534	13,073	23,873	104,450	118,506	254,998	266,704	204,136
Value of shipments.....do....	1,709,818	2,048	3,098	8,825	24,268	47,449	186,657	220,177	402,337	448,694	366,265
Capital expenditures, new...do....	35,804	66	113	176	532	447	3,926	5,324	9,938	7,433	7,849
INDUSTRY 3622.—INDUSTRIAL CONTROLS											
Establishments.....number..	427	174	67	68	53	28	15	10	3	7	2
All employees:											
Total.....do....	32,990	331	475	937	1,660	2,053	2,142	3,587	1,889	19,916	(D)
Payroll.....$1,000..	214,597	2,103	2,745	5,480	9,872	12,669	13,445	23,326	11,432	133,525	(D)
Value added, adjusted.....do....	450,507	3,874	4,778	9,796	18,302	23,768	21,888	46,261	25,292	296,548	(D)
Value of shipments.....do....	648,683	6,977	8,764	17,124	31,534	38,396	40,085	72,394	34,515	398,894	(D)
Capital expenditures, new...do....	15,419	120	138	268	456	951	470	743	634	11,639	(D)
INDUSTRY 3623.—ELECTRIC WELDING APPARATUS											
Establishments.....number..	149	35	14	25	31	19	17	6	1	1	-
All employees:											
Total.....do....	9,629	49	98	356	1,013	1,338	2,510	4,265	(D)	(D)	-
Payroll.....$1,000..	72,113	327	638	2,212	6,767	9,244	17,777	35,148	(D)	(D)	-
Value added, adjusted.....do....	162,411	809	1,207	4,289	14,408	17,049	40,227	84,422	(D)	(D)	-
Value of shipments.....do....	330,227	1,591	2,100	9,511	26,832	38,317	93,886	157,990	(D)	(D)	-
Capital expenditures, new...do....	5,364	[24]216	32	136	609	399	1,322	2,650	(D)	(D)	-
INDUSTRY 3624.—CARBON AND GRAPHITE PRODUCTS											
Establishments.....number..	53	4	4	5	12	6	7	6	9	-	-
All employees:											
Total.....do....	10,123	32	(D)	65	398	428	961	2,138	6,101	-	-
Payroll.....$1,000..	61,984	166	(D)	371	2,422	2,833	4,502	12,908	38,782	-	-
Value added, adjusted.....do....	141,423	228	(D)	673	4,170	5,146	6,559	25,898	98,749	-	-
Value of shipments.....do....	226,889	446	(D)	861	5,886	7,617	10,989	46,678	154,412	-	-
Capital expenditures, new...do....	11,441	7	(D)	25	340	451	286	1,061	9,271	-	-
INDUSTRY 3629.—ELECTRIC INDUSTRIAL GOODS, N.E.C.											
Establishments.....number..	231	51	27	44	48	27	23	6	3	2	-
All employees:											
Total.....do....	14,041	90	185	626	1,544	1,928	3,373	2,024	4,271	(D)	-
Payroll.....$1,000..	72,988	459	952	3,286	7,522	8,958	15,799	9,296	26,716	(D)	-
Value added, adjusted.....do....	141,633	1,037	1,539	5,976	13,643	14,354	31,017	14,582	59,485	(D)	-
Value of shipments.....do....	238,325	1,645	2,548	10,898	23,772	26,318	52,482	24,018	96,644	(D)	-
Capital expenditures, new...do....	4,003	54	106	130	657	472	707	474	1,403	(D)	-
INDUSTRY 3631.—HOUSEHOLD COOKING EQUIPMENT											
Establishments.....number..	83	18	7	5	6	12	10	10	10	5	-
All employees:											
Total.....do....	19,191	22	55	67	204	884	1,598	3,181	6,851	6,329	-
Payroll.....$1,000..	111,266	105	294	345	778	4,403	8,092	16,041	39,315	41,893	-
Value added, adjusted.....do....	230,285	149	486	898	1,536	5,778	12,791	24,609	71,818	112,220	-
Value of shipments.....do....	473,453	412	1,518	1,840	4,044	17,183	34,117	61,079	143,229	210,031	-
Capital expenditures, new...do....	8,216	6	71	23	39	145	173	1,406	2,526	3,827	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3632.—HOUSEHOLD REFRIGERATORS											
Establishments.....number..	34	7	1	1	2	3	4	3	2	6	5
All employees:											
Total.....do....	43,065	17	(D)	282	(D)	(D)	798	2,550	(D)	8,112	31,306
Payroll.....$1,000..	279,977	87	(D)	1,572	(D)	(D)	4,334	13,783	(D)	46,258	213,943
Value added, adjusted.....do....	631,269	142	(D)	2,517	(D)	(D)	8,865	20,165	(D)	90,774	508,806
Value of shipments.....do....	1,306,539	327	(D)	6,253	(D)	(D)	21,206	64,096	(D)	245,129	969,528
Capital expenditures, new...do....	21,765	8	(D)	50	(D)	(D)	2,859	(D)	(D)	4,037	14,811
INDUSTRY 3633.—HOUSEHOLD LAUNDRY EQUIPMENT											
Establishments.....number..	39	5	2	4	3	6	5	4	3	6	1
All employees:											
Total.....do....	18,343	3	71	(D)	99	419	758	1,181	2,468	13,344	(D)
Payroll.....$1,000..	115,387	14	367	(D)	635	2,345	4,016	6,342	16,512	85,156	(D)
Value added, adjusted.....do....	353,863	24	647	(D)	917	4,579	10,976	8,069	52,262	276,389	(D)
Value of shipments.....do....	760,161	59	2,653	(D)	3,394	11,077	32,956	21,108	131,032	557,882	(D)
Capital expenditures, new...do....	9,217	50	(D)	(D)	(D)	66	631	477	1,996	5,997	(D)
INDUSTRY 3634.—ELECTRIC HOUSEWARES AND FANS											
Establishments.....number..	312	115	30	31	40	31	20	19	21	4	1
All employees:											
Total.....do....	38,801	212	204	447	1,318	2,189	3,290	6,784	14,841	9,516	(D)
Payroll.....$1,000..	188,257	889	955	1,975	5,403	9,878	15,203	25,528	69,016	59,410	(D)
Value added, adjusted.....do....	463,845	1,864	1,815	2,346	10,808	25,169	41,079	48,540	168,985	163,239	(D)
Value of shipments.....do....	850,281	3,851	3,394	8,474	23,955	48,310	88,870	105,570	316,318	251,539	(D)
Capital expenditures, new...do....	17,009	[11]420	99	82	462	454	1,565	3,412	5,866	4,649	(D)
INDUSTRY 3635.—HOUSEHOLD VACUUM CLEANERS											
Establishments.....number..	34	7	6	8	2	4	2	1	1	3	-
All employees:											
Total.....do....	5,682	15	43	165	(D)	254	1,093	(D)	(D)	4,112	-
Payroll.....$1,000..	35,524	56	188	863	(D)	1,034	7,458	(D)	(D)	25,925	-
Value added, adjusted.....do....	116,137	107	319	1,178	(D)	2,311	23,750	(D)	(D)	88,472	-
Value of shipments.....do....	175,357	236	788	3,509	(D)	4,800	42,568	(D)	(D)	123,456	-
Capital expenditures, new...do....	5,739	4	12	68	(D)	63	5,592	(D)	(D)	(D)	-
INDUSTRY 3636.—SEWING MACHINES											
Establishments.....number..	86	46	13	10	7	3	-	3	2	1	1
All employees:											
Total.....do....	7,646	74	87	135	205	224	-	6,921	(D)	(D)	(D)
Payroll.....$1,000..	51,962	529	556	867	1,208	1,338	-	47,464	(D)	(D)	(D)
Value added, adjusted.....do....	98,328	873	1,062	1,352	2,065	3,117	-	89,859	(D)	(D)	(D)
Value of shipments.....do....	117,157	1,284	1,435	2,188	3,736	4,770	-	103,744	(D)	(D)	(D)
Capital expenditures, new...do....	2,568	17	14	14	17	29	-	2,477	(D)	(D)	(D)
INDUSTRY 3639.—HOUSEHOLD APPLIANCES, N.E.C.											
Establishments.....number..	112	25	8	12	23	18	7	11	6	2	-
All employees:											
Total.....do....	13,127	45	56	189	701	1,296	891	3,491	6,458	(D)	-
Payroll.....$1,000..	81,590	243	284	1,160	4,007	7,280	5,438	18,606	44,572	(D)	-
Value added, adjusted.....do....	204,188	668	432	2,444	11,287	18,750	9,107	51,933	109,567	(D)	-
Value of shipments.....do....	435,458	1,417	985	6,030	23,330	42,546	21,977	108,850	230,323	(D)	-
Capital expenditures, new...do....	6,738	10	18	59	152	643	287	1,828	3,741	(D)	-
INDUSTRY 3641.—ELECTRIC LAMPS											
Establishments.....number..	81	18	6	7	3	5	10	14	16	1	1
All employees:											
Total.....do....	23,404	31	41	101	93	343	1,534	5,059	16,202	(D)	(D)
Payroll.....$1,000..	122,721	146	173	456	390	1,365	6,643	25,534	88,014	(D)	(D)
Value added, adjusted.....do....	362,235	286	470	1,176	686	4,016	16,991	84,051	254,559	(D)	(D)
Value of shipments.....do....	574,522	440	773	1,854	1,234	10,235	28,904	139,700	391,382	(D)	(D)
Capital expenditures, new...do....	17,040	[18]1,892	(D)	(D)	(D)	(D)	(D)	1,658	13,490	(D)	(D)

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3642.—LIGHTING FIXTURES											
Establishments.....number..	1,239	384	195	180	234	134	74	21	16	-	1
All employees:											
Total.....do....	53,866	690	1,339	2,472	7,351	9,080	11,101	7,347	14,486	-	(D)
Payroll.....$1,000..	288,148	3,907	6,172	11,672	35,770	45,420	57,463	39,768	87,976	-	(D)
Value added, adjusted.....do....	587,834	9,003	13,085	23,359	69,641	87,706	124,377	77,974	182,689	-	(D)
Value of shipments.....do....	1,159,497	19,536	26,877	50,589	158,731	182,780	249,345	149,560	322,079	-	(D)
Capital expenditures, new...do....	23,072	434	429	955	2,225	3,144	3,878	3,025	8,982	-	(D)
INDUSTRY 3643.—CURRENT CARRYING DEVICES											
Establishments.....number..	449	149	61	59	71	42	36	18	6	6	1
All employees:											
Total.....do....	35,424	240	393	814	2,247	3,060	5,602	6,761	4,297	12,010	(D)
Payroll.....$1,000..	175,185	1,075	1,648	3,708	10,325	15,759	27,852	33,379	23,993	57,446	(D)
Value added, adjusted.....do....	355,643	2,704	3,486	7,700	20,920	40,414	60,289	66,457	44,275	109,398	(D)
Value of shipments.....do....	615,980	5,400	6,152	13,653	37,635	71,206	110,061	120,488	86,533	164,852	(D)
Capital expenditures, new...do....	14,119	152	135	289	840	2,607	2,055	1,966	971	5,104	(D)
INDUSTRY 3644.—NONCURRENT CARRYING DEVICES											
Establishments.....number..	182	31	18	30	26	32	21	16	6	2	-
All employees:											
Total.....do....	20,290	58	125	432	756	2,222	3,609	5,737	7,351	(D)	-
Payroll.....$1,000..	123,576	246	635	2,165	4,483	11,860	21,265	36,787	46,135	(D)	-
Value added, adjusted.....do....	253,918	1,434	1,183	4,483	9,155	28,200	38,695	73,025	97,743	(D)	-
Value of shipments.....do....	479,033	1,196	2,476	9,114	17,603	58,422	92,271	136,428	161,523	(D)	-
Capital expenditures, new...do....	7,873	31	42	190	405	1,569	903	2,061	2,672	(D)	-
INDUSTRY 3651.—RADIO AND TV RECEIVING SETS											
Establishments.....number..	348	81	48	41	50	32	35	25	15	15	6
All employees:											
Total.....do....	81,264	124	350	570	1,556	2,358	5,651	8,457	11,223	23,800	27,175
Payroll.....$1,000..	411,924	661	1,712	2,618	7,147	10,953	24,253	38,159	53,378	121,984	151,059
Value added, adjusted.....do....	911,954	1,081	5,831	3,723	13,166	24,887	46,428	74,639	102,688	286,149	353,362
Value of shipments.....do....	2,254,878	2,444	8,469	9,229	26,129	51,480	106,587	145,364	272,588	760,517	872,071
Capital expenditures, new...do....	30,511	[2]4210	317	257	608	864	1,015	1,267	2,147	8,479	15,347
INDUSTRY 3652.—PHONOGRAPH RECORDS											
Establishments.....number..	167	59	26	22	25	14	12	4	4	1	-
All employees:											
Total.....do....	9,554	100	196	299	861	922	1,922	5,254	(D)	(D)	-
Payroll.....$1,000..	46,981	536	869	1,536	3,590	4,406	8,536	27,508	(D)	(D)	-
Value added, adjusted.....do....	125,388	1,972	1,929	3,922	6,551	8,362	18,001	84,651	(D)	(D)	-
Value of shipments.....do....	180,173	3,038	3,154	6,028	11,148	12,740	28,376	115,689	(D)	(D)	-
Capital expenditures, new...do....	8,704	[3]3,773	462	367	675	623	848	1,956	(D)	(D)	-
INDUSTRY 3661.—TELEPHONE; TELEGRAPH APPARATUS											
Establishments.....number..	90	18	8	8	11	4	10	6	9	4	12
All employees:											
Total.....do....	89,465	25	56	111	309	242	1,726	2,229	84,767	(D)	(D)
Payroll.....$1,000..	554,375	135	310	648	1,486	1,466	9,403	13,968	526,959	(D)	(D)
Value added, adjusted.....do....	1,013,792	247	488	1,459	3,327	2,603	16,351	28,922	960,395	(D)	(D)
Value of shipments[1].....do....	1,736,358	506	833	2,002	6,132	3,720	30,703	46,301	1,646,161	(D)	(D)
Capital expenditures, new...do....	55,127	78	57	103	271	69	288	813	53,448	(D)	(D)
INDUSTRY 3662.—RADIO, TV COMMUNICATIONS EQUIPMENT											
Establishments.....number..	1,132	211	138	148	196	134	120	52	49	41	43
All employees:											
Total.....do....	387,384	333	942	2,065	6,191	9,317	18,565	18,235	34,863	66,114	230,759
Payroll.....$1,000..	2,840,218	3,580	5,456	11,616	36,634	54,472	119,010	119,606	235,772	499,843	1,754,229
Value added, adjusted.....do....	4,327,671	3,623	8,313	19,210	58,200	96,689	182,085	180,672	366,634	735,526	2,676,719
Value of shipments.....do....	7,145,600	6,136	15,190	32,365	98,441	157,469	296,346	297,299	645,991	1,168,309	4,428,054
Capital expenditures, new...do....	138,734	[2]0891	538	692	2,387	3,945	10,006	6,336	12,695	23,407	77,837

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3671.—ELECTRON TUBES, RECEIVING TYPE											
Establishments.....number..	42	9	6	5	2	1	2	2	4	9	2
All employees:											
Total.....do....	25,850	15	37	104	(D)	1,156	(D)	(D)	3,042	21,496	(D)
Payroll.....$1,000..	136,768	75	158	425	(D)	4,389	(D)	(D)	14,500	117,221	(D)
Value added, adjusted.....do....	250,681	175	303	719	(D)	4,799	(D)	(D)	35,014	209,671	(D)
Value of shipments.....do....	321,091	242	425	1,098	(D)	6,661	(D)	(D)	49,808	262,857	(D)
Capital expenditures, new...do....	5,596	25	23	34	(D)	76	(D)	(D)	573	4,865	(D)
INDUSTRY 3672.—CATHODE RAY PICTURE TUBES											
Establishments.....number..	151	77	27	19	15	5	2	1	1	3	1
All employees:											
Total.....do....	10,916	130	176	274	468	320	1,412	(D)	(D)	8,136	(D)
Payroll.....$1,000..	66,888	598	709	1,168	2,117	1,611	8,646	(D)	(D)	52,039	(D)
Value added, adjusted.....do....	128,354	951	1,026	1,828	2,743	3,923	8,034	(D)	(D)	109,849	(D)
Value of shipments.....do....	269,122	1,845	1,988	3,033	6,163	6,542	25,895	(D)	(D)	223,656	(D)
Capital expenditures, new...do....	16,138	406	310	254	496	300	773	(D)	(D)	13,599	(D)
INDUSTRY 3673.—ELECTRON TUBES, TRANSMITTING											
Establishments.....number..	57	4	6	2	6	9	10	8	6	5	1
All employees:											
Total.....do....	18,704	81	(D)	(D)	200	634	1,433	2,701	4,082	9,573	(D)
Payroll.....$1,000..	129,296	425	(D)	(D)	1,139	3,501	9,949	18,710	27,781	67,791	(D)
Value added, adjusted.....do....	204,614	793	(D)	(D)	1,954	5,686	15,802	29,386	49,786	101,207	(D)
Value of shipments.....do....	299,527	1,046	(D)	(D)	3,509	8,339	20,823	39,088	71,534	155,188	(D)
Capital expenditures, new...do....	13,262	98	(D)	(D)	81	134	663	1,773	2,285	8,228	(D)
INDUSTRY 3674.—SEMICONDUCTORS											
Establishments.....number..	107	9	4	7	13	18	19	8	14	11	4
All employees:											
Total.....do....	56,349	18	32	104	455	1,332	3,173	2,958	10,071	17,516	20,690
Payroll.....$1,000..	320,875	119	178	668	2,713	7,073	17,333	16,232	52,794	102,756	121,009
Value added, adjusted.....do....	467,035	86	358	1,099	4,211	10,358	32,793	29,086	75,414	115,611	198,019
Value of shipments.....do....	687,817	232	494	1,571	6,097	14,665	45,876	40,801	111,936	188,828	277,317
Capital expenditures, new...do....	52,439	13	31	154	470	696	1,879	1,631	6,451	12,048	29,066
INDUSTRY 3679.—ELECTRONIC COMPONENTS, N.E.C.											
Establishments.....number..	1,934	506	229	231	337	218	238	109	47	16	3
All employees:											
Total.....do....	176,708	975	1,560	3,164	10,702	15,468	36,455	39,092	32,410	24,234	12,648
Payroll.....$1,000..	881,920	4,848	7,758	14,688	51,074	75,082	169,598	195,985	155,790	135,184	71,913
Value added, adjusted.....do....	1,457,433	8,497	13,700	23,777	79,766	140,486	274,755	338,540	274,182	207,031	96,699
Value of shipments.....do....	2,332,215	15,411	21,973	40,315	132,553	221,922	458,705	523,145	416,100	343,910	158,181
Capital expenditures, new...do....	88,508	[3]7,998	979	1,286	4,426	6,650	11,329	15,095	12,197	23,451	5,097
INDUSTRY 3691.—STORAGE BATTERIES											
Establishments.....number..	252	76	31	25	41	32	29	13	3	2	-
All employees:											
Total.....do....	17,512	124	219	360	1,313	2,335	4,303	4,576	4,282	(D)	-
Payroll.....$1,000..	108,700	591	1,051	1,740	6,614	13,074	27,079	27,047	29,504	(D)	-
Value added, adjusted.....do....	244,152	1,612	2,203	3,834	15,270	31,658	70,146	60,407	59,022	(D)	-
Value of shipments.....do....	516,457	3,307	4,171	9,301	37,917	74,684	158,267	120,227	108,583	(D)	-
Capital expenditures, new...do....	11,968	[24]283	154	219	872	1,619	5,662	2,181	978	(D)	-
INDUSTRY 3692.—PRIMARY BATTERIES, DRY AND WET											
Establishments.....number..	46	10	3	4	2	5	9	9	3	1	-
All employees:											
Total.....do....	8,478	12	16	117	(D)	358	1,751	6,224	(D)	(D)	-
Payroll.....$1,000..	40,602	54	64	564	(D)	1,443	8,784	29,693	(D)	(D)	-
Value added, adjusted.....do....	113,787	105	158	981	(D)	3,420	30,915	78,208	(D)	(D)	-
Value of shipments.....do....	195,298	246	290	2,155	(D)	5,928	53,102	133,577	(D)	(D)	-
Capital expenditures, new...do....	4,132	[19]70	(D)	(D)	(D)	86	1,857	2,119	(D)	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3693.—X-RAY APPARATUS AND TUBES											
Establishments.....number..	58	9	7	12	7	12	7	1	2	1	-
All employees:											
Total.....do....	6,236	24	56	171	203	806	1,652	(D)	3,324	(D)	-
Payroll.....$1,000..	43,796	116	390	936	1,175	4,834	10,721	(D)	25,624	(D)	-
Value added, adjusted.....do....	86,534	192	864	1,107	2,416	8,899	23,343	(D)	49,713	(D)	-
Value of shipments.....do....	143,706	348	1,335	2,494	4,192	15,771	33,005	(D)	86,561	(D)	-
Capital expenditures, new...do....	2,132	7	22	29	43	323	593	(D)	1,116	(D)	-
INDUSTRY 3694.—ENGINE ELECTRICAL EQUIPMENT											
Establishments.....number..	182	38	19	27	31	20	19	16	6	4	2
All employees:											
Total.....do....	40,559	55	145	382	982	1,379	3,040	5,997	4,382	24,197	(D)
Payroll.....$1,000..	250,202	273	789	1,729	4,011	6,474	15,118	30,769	17,719	173,320	(D)
Value added, adjusted.....do....	496,662	602	1,479	3,355	6,605	11,247	31,903	54,578	38,516	348,377	(D)
Value of shipments.....do....	900,663	1,110	2,640	6,310	11,978	19,768	67,151	101,684	76,429	613,593	(D)
Capital expenditures, new...do....	15,490	22	61	112	177	605	1,190	1,840	756	10,727	(D)
INDUSTRY 3699.—ELECTRICAL PRODUCTS, N.E.C.											
Establishments.....number..	350	167	33	44	58	25	15	5	2	1	-
All employees:											
Total.....do....	10,923	190	224	607	1,884	1,664	2,297	1,509	2,548	(D)	-
Payroll.....$1,000..	51,215	1,074	1,128	2,793	8,416	6,520	10,874	6,634	13,776	(D)	-
Value added, adjusted.....do....	101,221	1,948	1,999	4,748	15,830	14,183	22,765	18,154	21,594	(D)	-
Value of shipments.....do....	190,038	4,034	3,709	11,467	32,451	31,557	41,965	31,086	33,769	(D)	-
Capital expenditures, new...do....	3,271	46	43	120	429	465	333	357	1,478	(D)	-
INDUSTRY 3713.—TRUCK AND BUS BODIES											
Establishments.....number..	610	156	99	147	119	44	23	14	5	3	-
All employees:											
Total.....do....	24,466	309	714	2,070	3,679	3,137	3,537	4,869	2,818	3,333	-
Payroll.....$1,000..	133,300	1,394	3,324	9,957	19,855	16,898	17,844	27,067	14,699	22,262	-
Value added, adjusted.....do....	229,472	2,806	5,980	17,523	35,540	28,538	32,627	42,724	26,902	36,832	-
Value of shipments.....do....	476,733	6,120	12,656	35,701	70,292	62,239	61,301	95,566	59,013	73,845	-
Capital expenditures, new...do....	6,554	109	162	502	942	936	706	1,136	1,652	409	-
INDUSTRY 3715.—TRUCK TRAILERS											
Establishments.....number..	197	45	14	33	31	29	21	17	4	3	-
All employees:											
Total.....do....	19,429	87	94	421	992	2,164	3,318	5,540	6,813	(D)	-
Payroll.....$1,000..	112,876	439	426	2,148	5,529	12,524	18,684	32,017	41,109	(D)	-
Value added, adjusted.....do....	205,475	772	931	4,502	9,432	20,407	28,101	59,384	81,946	(D)	-
Value of shipments.....do....	515,661	1,773	2,510	8,940	21,718	45,711	76,635	152,341	206,033	(D)	-
Capital expenditures, new...do....	5,265	36	52	88	475	994	617	1,110	1,893	(D)	-
INDUSTRY 3717.—MOTOR VEHICLES AND PARTS											
Establishments.....number..	1,958	536	267	246	296	172	135	82	60	82	82
All employees:											
Total.....do....	649,926	963	1,815	3,422	9,384	12,091	21,141	29,352	41,739	138,097	391,922
Payroll.....$1,000..	4,947,271	4,682	9,180	17,391	49,178	64,939	116,885	172,328	272,698	1,116,895	3,123,095
Value added, adjusted.....do....	12,345,630	10,272	19,013	33,791	96,583	140,619	235,305	371,417	573,212	3,318,970	7,546,448
Value of shipments.....do....	[3]36,181,007	20,651	37,939	65,097	196,358	291,566	465,200	739,584	1,329,061	11,072,255	21,963,296
Capital expenditures, new...do....	643,555	[11]7,684	8,209	8,325	13,332	19,608	18,236	20,785	16,294	160,074	371,008
INDUSTRY 3721.—AIRCRAFT											
Establishments.....number..	100	16	12	7	10	9	7	3	6	9	21
All employees:											
Total.....do....	302,201	31	168	(D)	975	(D)	1,079	1,107	4,464	16,367	278,010
Payroll.....$1,000..	2,369,416	170	906	(D)	5,014	(D)	5,805	5,243	28,593	106,452	2,217,233
Value added, adjusted.....do....	3,542,695	192	1,444	(D)	5,550	(D)	5,688	9,821	38,168	138,349	3,343,483
Value of shipments[2].....do....	6,316,531	290	2,302	(D)	11,307	(D)	10,079	17,545	59,873	261,174	5,953,961
Capital expenditures, new...do....	114,658	6	32	(D)	308	(D)	71	97	916	4,741	108,487

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3722.—AIRCRAFT ENGINES AND PARTS											
Establishments.....number..	232	20	18	22	35	36	37	12	20	15	17
All employees:											
Total.....do....	190,834	43	128	332	1,139	2,386	5,792	4,577	13,011	21,896	141,530
Payroll.....$1,000..	1,486,081	260	835	2,138	7,941	17,546	39,285	31,359	96,526	171,260	1,118,931
Value added, adjusted.....do....	2,244,317	399	1,154	3,406	11,088	25,709	63,871	43,770	166,277	263,061	1,665,582
Value of shipments.....do....	4,100,520	618	1,679	5,411	17,651	40,829	100,290	75,912	262,939	408,854	3,186,337
Capital expenditures, new...do....	111,529	53	(D)	126	642	1,392	2,073	2,265	7,005	21,927	76,046
INDUSTRY 3723.—AIRCRAFT PROPELLERS AND PARTS											
Establishments.....number..	14	2	2	2	2	-	3	1	-	1	1
All employees:											
Total.....do....	11,183	11,183	(D)	(D)	(D)	-	(D)	(D)	-	(D)	(D)
Payroll.....$1,000..	78,712	78,712	(D)	(D)	(D)	-	(D)	(D)	-	(D)	(D)
Value added, adjusted.....do....	113,433	113,433	(D)	(D)	(D)	-	(D)	(D)	-	(D)	(D)
Value of shipments.....do....	190,761	190,761	(D)	(D)	(D)	-	(D)	(D)	-	(D)	(D)
Capital expenditures, new...do....	6,045	6,045	(D)	(D)	(D)	-	(D)	(D)	-	(D)	(D)
INDUSTRY 3729.—AIRCRAFT EQUIPMENT, N.E.C.											
Establishments.....number..	1,000	245	117	168	168	103	88	47	29	25	10
All employees:											
Total.....do....	175,167	433	827	2,377	5,312	6,979	14,010	16,545	19,616	39,179	69,889
Payroll.....$1,000..	1,319,476	4,074	4,897	15,353	34,306	45,045	95,511	112,264	142,887	302,207	562,932
Value added, adjusted.....do....	1,966,904	5,860	7,949	25,161	51,877	65,743	139,025	165,299	213,578	429,373	863,039
Value of shipments.....do....	3,168,607	9,780	12,522	41,935	86,687	116,490	242,883	273,980	354,402	688,636	1,341,292
Capital expenditures, new...do....	61,931	493	471	1,267	7,252	(D)	5,624	5,462	9,317	16,754	15,291
INDUSTRY 3731.—SHIP BUILDING AND REPAIRING											
Establishments.....number..	334	58	32	44	57	39	41	21	22	12	8
All employees:											
Total.....do....	114,649	90	218	632	1,919	2,737	6,725	7,715	16,106	20,212	58,295
Payroll.....$1,000..	782,299	687	1,149	3,601	11,093	16,397	38,585	47,373	98,866	132,944	431,604
Value added, adjusted.....do....	[3][4]1,009,690	872	2,027	5,780	16,005	22,015	53,975	64,263	143,487	191,105	510,161
Value of shipments[2].....do....	[3][5]1,679,765	1,560	3,068	8,786	24,746	36,768	101,511	112,781	244,860	335,717	809,968
Capital expenditures, new...do....	24,477	502	(D)	157	443	531	1,699	1,943	2,298	3,996	12,908
INDUSTRY 3732.—BOAT BUILDING AND REPAIRING											
Establishments.....number..	1,626	932	235	191	156	66	36	7	3	-	-
All employees:											
Total.....do....	24,861	1,503	1,549	2,643	4,698	4,495	5,469	4,504	(D)	-	-
Payroll.....$1,000..	116,140	6,533	6,682	11,285	21,531	20,743	27,374	21,992	(D)	-	-
Value added, adjusted.....do....	183,059	10,248	10,219	18,301	34,020	33,120	44,308	32,843	(D)	-	-
Value of shipments.....do....	360,208	20,877	18,920	33,073	61,204	65,362	92,391	68,381	(D)	-	-
Capital expenditures, new...do....	13,472	[7]1,664	1,045	1,357	1,972	4,068	2,128	1,238	(D)	-	-
INDUSTRY 3741.—LOCOMOTIVES AND PARTS											
Establishments.....number..	24	2	4	6	3	2	3	-	1	1	2
All employees:											
Total.....do....	14,337	35	(D)	86	239	(D)	1,490	-	(D)	12,487	(D)
Payroll.....$1,000..	99,696	188	(D)	332	1,455	(D)	9,926	-	(D)	87,795	(D)
Value added, adjusted.....do....	186,241	723	(D)	884	2,236	(D)	19,675	-	(D)	162,723	(D)
Value of shipments.....do....	437,872	1,390	(D)	2,185	3,481	(D)	56,834	-	(D)	373,982	(D)
Capital expenditures, new...do....	7,195	10	(D)	10	65	(D)	424	-	(D)	6,686	(D)
INDUSTRY 3742.—RAILROAD AND STREET CARS											
Establishments.....number..	78	5	7	8	10	12	10	5	9	11	1
All employees:											
Total.....do....	30,742	13	48	111	304	786	1,428	1,810	6,672	19,570	(D)
Payroll.....$1,000..	201,999	74	260	611	1,693	4,812	9,015	11,633	42,731	131,170	(D)
Value added, adjusted.....do....	355,230	102	360	1,287	3,835	11,289	15,590	26,500	77,891	218,376	(D)
Value of shipments.....do....	927,184	294	1,049	3,351	11,114	26,268	32,719	53,161	230,684	568,544	(D)
Capital expenditures, new...do....	10,877	10	49	70	128	484	721	1,228	2,279	5,908	(D)

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3751.—MOTORCYCLES, BICYCLES, AND PARTS											
Establishments.....number..	88	37	8	10	8	9	7	4	3	2	-
All employees:											
Total.....do....	9,662	68	61	135	232	678	1,288	1,510	5,690	(D)	-
Payroll.....$1,000..	48,425	250	260	676	992	3,378	5,211	7,179	30,479	(D)	-
Value added, adjusted.....do....	82,245	362	407	782	1,589	5,672	10,592	14,377	48,464	(D)	-
Value of shipments.....do....	192,851	1,033	1,066	2,627	4,258	11,498	27,869	33,762	110,738	(D)	-
Capital expenditures, new...do....	3,152	11	10	32	46	176	200	287	2,390	(D)	-
INDUSTRY 3791.—TRAILER COACHES											
Establishments.....number..	413	85	35	41	87	77	75	12	1	-	-
All employees:											
Total.....do....	25,669	119	240	537	2,981	5,348	11,997	4,447	(D)	-	-
Payroll.....$1,000..	125,002	548	1,135	2,150	12,717	25,148	59,182	24,122	(D)	-	-
Value added, adjusted.....do....	232,460	905	1,436	2,737	20,269	46,603	112,726	47,784	(D)	-	-
Value of shipments.....do....	713,119	2,952	5,343	10,311	64,390	151,709	339,993	138,421	(D)	-	-
Capital expenditures, new...do....	9,584	99	145	419	1,116	2,137	3,879	1,789	(D)	-	-
INDUSTRY 3799.—TRANSPORTATION EQUIPMENT, N.E.C.											
Establishments.....number..	522	254	96	64	68	24	16	-	-	-	-
All employees:											
Total.....do....	8,032	458	635	921	2,187	1,556	2,275	-	-	-	-
Payroll.....$1,000..	37,547	2,066	2,692	3,965	10,688	7,033	11,103	-	-	-	-
Value added, adjusted.....do....	68,823	4,005	4,515	7,199	19,276	12,202	21,626	-	-	-	-
Value of shipments.....do....	167,375	9,411	11,810	16,483	51,579	31,821	46,271	-	-	-	-
Capital expenditures, new...do....	3,710	399	400	344	1,066	740	761	-	-	-	-
INDUSTRY 3811.—SCIENTIFIC INSTRUMENTS											
Establishments.....number..	594	189	101	91	101	53	35	15	3	4	2
All employees:											
Total.....do....	33,084	350	671	1,226	3,312	3,632	5,536	5,482	1,984	10,891	(D)
Payroll.....$1,000..	208,171	1,719	3,400	6,612	19,942	20,703	33,910	32,423	11,056	78,406	(D)
Value added, adjusted.....do....	358,588	3,832	6,793	12,385	32,519	37,559	60,797	55,946	22,839	125,918	(D)
Value of shipments.....do....	553,920	5,857	10,637	19,310	53,260	60,639	102,367	94,345	35,138	172,367	(D)
Capital expenditures, new...do....	16,244	187	262	337	1,317	1,027	2,677	2,899	909	6,629	(D)
INDUSTRY 3821.—MECHANICAL MEASURING DEVICES											
Establishments.....number..	670	236	84	92	99	56	52	24	12	12	3
All employees:											
Total.....do....	62,353	437	548	1,243	3,148	3,717	8,729	8,424	8,007	19,244	8,856
Payroll.....$1,000..	388,874	2,189	3,017	7,016	18,260	21,447	54,021	48,077	46,006	130,529	58,312
Value added, adjusted.....do....	732,529	4,393	5,445	16,344	33,828	38,813	111,833	117,339	78,063	225,722	100,749
Value of shipments.....do....	1,143,416	7,298	8,757	24,278	52,582	66,373	171,663	186,460	136,270	313,550	176,185
Capital expenditures, new...do....	30,914	1,267	223	486	1,390	1,684	4,069	3,034	3,518	10,039	5,204
INDUSTRY 3822.—AUTOMATIC TEMPERATURE CONTROLS											
Establishments.....number..	104	23	18	9	13	8	5	7	11	8	2
All employees:											
Total.....do....	31,685	30	125	113	376	1,522	(D)	2,912	7,472	19,135	(D)
Payroll.....$1,000..	192,301	197	685	622	2,276	6,864	(D)	25,198	45,204	111,255	(D)
Value added, adjusted.....do....	379,091	445	1,308	894	4,560	18,408	(D)	30,153	94,878	228,445	(D)
Value of shipments.....do....	527,358	692	2,401	1,347	7,222	30,455	(D)	43,205	134,181	307,855	(D)
Capital expenditures, new...do....	10,523	20	93	(D)	105	476	(D)	1,122	2,561	6,146	(D)
INDUSTRY 3831.—OPTICAL INSTRUMENTS AND LENSES											
Establishments.....number..	280	103	51	47	38	13	19	6	1	2	-
All employees:											
Total.....do....	11,924	194	339	655	1,232	918	3,077	5,509	(D)	(D)	-
Payroll.....$1,000..	79,131	921	2,048	3,427	7,492	6,009	19,383	39,851	(D)	(D)	-
Value added, adjusted.....do....	131,917	2,087	3,822	6,043	12,997	9,494	34,673	62,801	(D)	(D)	-
Value of shipments.....do....	196,022	3,005	6,139	8,576	18,875	12,938	51,214	95,275	(D)	(D)	-
Capital expenditures, new...do....	6,163	143	168	275	333	685	1,680	2,879	(D)	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3841.—SURGICAL AND MEDICAL INSTRUMENTS											
Establishments.....number..	294	93	48	36	51	31	22	7	5	1	-
All employees:											
Total.....do....	15,145	140	335	484	1,637	2,097	3,493	2,276	4,683	(D)	-
Payroll.....$1,000..	83,332	779	1,741	2,570	8,102	11,181	17,237	13,831	27,891	(D)	-
Value added, adjusted.....do....	168,556	1,971	5,725	4,103	14,191	20,690	39,108	25,899	56,869	(D)	-
Value of shipments.....do....	284,014	3,167	8,177	6,469	25,113	31,554	68,996	37,551	102,987	(D)	-
Capital expenditures, new...do....	10,514	71	99	173	368	815	3,396	1,252	4,340	(D)	-
INDUSTRY 3842.—SURGICAL APPLIANCES AND SUPPLIES											
Establishments.....number..	704	300	148	94	65	43	27	17	6	3	1
All employees:											
Total.....do....	28,267	601	1,000	1,253	1,885	2,909	4,474	5,691	10,454	(D)	(D)
Payroll.....$1,000..	161,800	2,862	4,994	5,880	8,254	14,433	20,885	26,964	77,528	(D)	(D)
Value added, adjusted.....do....	370,273	6,112	9,234	11,340	16,856	26,676	39,879	67,810	192,366	(D)	(D)
Value of shipments.....do....	596,666	9,505	14,318	18,030	27,193	49,484	67,374	117,729	293,033	(D)	(D)
Capital expenditures, new...do....	17,831	298	303	311	482	1,160	1,160	2,786	11,331	(D)	(D)
INDUSTRY 3843.—DENTAL EQUIPMENT AND SUPPLIES											
Establishments.....number..	316	172	48	30	29	18	13	3	3	-	-
All employees:											
Total.....do....	8,008	278	312	402	834	1,349	2,017	815	2,001	-	-
Payroll.....$1,000..	46,080	1,345	1,815	2,446	4,890	7,621	11,637	4,523	11,803	-	-
Value added, adjusted.....do....	95,876	3,125	3,270	4,205	9,151	15,861	22,985	8,497	28,782	-	-
Value of shipments.....do....	147,805	5,440	5,857	8,685	13,611	29,827	31,169	15,381	37,835	-	-
Capital expenditures, new...do....	2,735	76	46	66	164	745	448	221	969	-	-
INDUSTRY 3851.—OPHTHALMIC GOODS											
Establishments.....number..	229	56	34	30	34	41	16	15	1	-	2
All employees:											
Total.....do....	20,296	117	230	422	1,047	2,852	2,541	13,087	(D)	-	(D)
Payroll.....$1,000..	96,361	514	1,028	1,818	4,946	12,321	10,979	64,755	(D)	-	(D)
Value added, adjusted.....do....	177,898	929	1,851	3,306	8,683	22,146	20,585	120,398	(D)	-	(D)
Value of shipments.....do....	272,687	1,596	2,938	5,725	14,837	37,613	32,613	177,365	(D)	-	(D)
Capital expenditures, new...do....	9,085	38	58	96	216	782	825	7,070	(D)	-	(D)
INDUSTRY 3861.—PHOTOGRAPHIC EQUIPMENT											
Establishments.....number..	538	195	86	70	76	43	32	18	9	6	3
All employees:											
Total.....do....	64,937	318	562	931	2,398	2,870	4,802	5,942	6,435	40,679	(D)
Payroll.....$1,000..	498,828	1,651	3,196	5,361	13,363	18,995	28,000	34,973	43,304	349,985	(D)
Value added, adjusted.....do....	1,270,132	4,112	7,163	11,823	25,804	38,671	85,858	95,295	118,381	883,025	(D)
Value of shipments.....do....	1,851,213	7,192	11,927	20,323	51,681	65,365	141,110	167,559	184,926	1,201,130	(D)
Capital expenditures, new...do....	78,626	[20]1,038	276	369	1,635	1,195	3,685	3,781	6,066	60,581	(D)
INDUSTRY 3871.—WATCHES AND CLOCKS											
Establishments.....number..	167	62	17	12	27	12	12	12	6	6	1
All employees:											
Total.....do....	27,047	109	113	162	937	769	2,026	4,704	3,963	14,264	(D)
Payroll.....$1,000..	144,179	563	548	784	4,909	3,612	10,595	25,432	19,384	78,352	(D)
Value added, adjusted.....do....	288,053	1,162	1,833	1,543	10,429	8,007	22,758	46,117	53,526	142,678	(D)
Value of shipments.....do....	511,168	2,379	4,420	3,460	22,194	16,611	50,365	89,414	78,910	243,415	(D)
Capital expenditures, new...do....	8,730	[11]1,481	(D)	(D)	651	573	721	888	795	3,621	(D)
INDUSTRY 3872.—WATCHCASES											
Establishments.....number..	53	18	9	4	10	7	2	2	1	-	-
All employees:											
Total.....do....	2,706	30	61	68	330	899	(D)	1,318	(D)	-	-
Payroll.....$1,000..	13,415	175	279	342	1,780	4,435	(D)	6,404	(D)	-	-
Value added, adjusted.....do....	19,218	258	394	460	2,666	6,549	(D)	8,891	(D)	-	-
Value of shipments.....do....	33,620	574	852	982	5,903	10,931	(D)	14,378	(D)	-	-
Capital expenditures, new...do....	500	5	(D)	11	24	93	(D)	367	(D)	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3911.—JEWELRY, PRECIOUS METAL											
Establishments.....number..	1,438	754	256	210	128	55	25	4	5	1	-
All employees:											
Total.....do....	23,551	1,312	1,711	2,817	3,882	3,763	3,871	1,269	4,926	(D)	-
Payroll.....$1,000..	125,610	6,247	8,718	14,909	20,173	19,298	19,403	6,309	30,553	(D)	-
Value added, adjusted.....do....	234,925	12,817	15,483	24,789	37,682	35,535	42,492	10,565	55,562	(D)	-
Value of shipments.....do....	481,943	29,839	34,520	58,810	85,626	63,686	108,678	16,351	84,433	(D)	-
Capital expenditures, new....do....	3,676	251	207	374	541	439	973	(D)	891	(D)	-
INDUSTRY 3912.—JEWELERS' FINDINGS AND MATERIALS											
Establishments.....number..	228	93	41	27	46	12	7	2	-	-	-
All employees:											
Total.....do....	4,816	176	274	372	1,427	841	1,726	(D)	-	-	-
Payroll.....$1,000..	20,836	591	1,000	1,402	6,440	3,742	7,661	(D)	-	-	-
Value added, adjusted.....do....	33,958	1,397	1,813	2,247	9,487	6,751	12,264	(D)	-	-	-
Value of shipments.....do....	72,833	2,632	3,175	4,267	17,156	22,300	23,303	(D)	-	-	-
Capital expenditures, new....do....	1,308	68	114	89	299	548	190	(D)	-	-	-
INDUSTRY 3913.—LAPIDARY WORK											
Establishments.....number..	318	246	38	19	11	2	2	-	-	-	-
All employees:											
Total.....do....	1,535	349	249	238	283	416	(D)	-	-	-	-
Payroll.....$1,000..	8,289	1,552	1,467	1,017	1,878	2,375	(D)	-	-	-	-
Value added, adjusted.....do....	16,129	2,573	3,205	2,730	3,129	4,492	(D)	-	-	-	-
Value of shipments.....do....	65,094	11,018	22,992	7,774	10,341	12,969	(D)	-	-	-	-
Capital expenditures, new....do....	393	56	44	63	55	175	(D)	-	-	-	-
INDUSTRY 3914.—SILVERWARE AND PLATED WARE											
Establishments.....number..	209	70	27	25	45	17	11	8	4	2	-
All employees:											
Total.....do....	13,249	119	190	343	1,373	1,181	1,593	2,632	5,818	(D)	-
Payroll.....$1,000..	70,924	582	852	1,587	6,563	5,950	8,159	13,336	33,895	(D)	-
Value added, adjusted.....do....	130,735	1,126	1,414	2,748	11,867	10,745	14,633	26,604	61,598	(D)	-
Value of shipments.....do....	237,999	2,237	2,946	5,711	21,176	18,001	24,472	48,113	115,343	(D)	-
Capital expenditures, new....do....	2,738	31	31	26	298	222	432	375	1,323	(D)	-
INDUSTRY 3931.—MUSICAL INSTRUMENTS AND PARTS											
Establishments.....number..	320	124	39	31	45	34	23	17	6	1	-
All employees:											
Total.....do....	20,095	242	287	445	1,523	2,465	3,848	5,894	5,391	(D)	-
Payroll.....$1,000..	103,029	920	1,278	1,897	7,265	12,277	19,682	31,523	28,187	(D)	-
Value added, adjusted.....do....	179,035	1,660	1,889	2,951	12,611	18,583	34,774	51,195	55,372	(D)	-
Value of shipments.....do....	314,407	3,780	3,940	5,093	21,198	35,120	63,129	94,288	87,859	(D)	-
Capital expenditures, new...do....	5,779	127	59	188	578	518	1,503	1,622	1,184	(D)	-
INDUSTRY 3941.—GAMES AND TOYS											
Establishments.....number..	797	267	80	99	153	77	67	35	13	6	-
All employees:											
Total.....do....	51,835	429	541	1,422	4,910	5,261	9,866	11,936	9,309	8,161	-
Payroll.....$1,000..	206,744	1,516	2,103	5,343	17,768	20,064	37,055	46,119	41,544	35,232	-
Value added, adjusted.....do....	444,101	14,195	4,803	11,257	38,152	42,703	73,040	92,061	90,192	77,698	-
Value of shipments.....do....	796,631	18,277	9,350	22,595	73,868	85,433	134,901	169,251	153,437	129,519	-
Capital expenditures, new...do....	27,728	559	452	851	3,107	2,590	5,207	4,830	5,967	4,165	-
INDUSTRY 3942.—DOLLS											
Establishments.....number..	410	109	55	86	86	45	19	9	-	-	1
All employees:											
Total.....do....	16,213	188	378	1,190	2,617	3,133	2,646	6,061	-	-	(D)
Payroll.....$1,000..	58,991	546	1,186	3,580	8,178	10,280	9,204	26,017	-	-	(D)
Value added, adjusted.....do....	138,100	1,302	2,205	6,757	14,992	21,342	15,020	76,482	-	-	(D)
Value of shipments.....do....	247,942	3,168	4,274	12,757	29,584	39,375	29,864	128,920	-	-	(D)
Capital expenditures, new...do....	6,276	351	369	592	611	1,205	664	2,484	-	-	(D)

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3943.—CHILDREN'S VEHICLES											
Establishments.....number..	64	21	5	7	6	10	9	6	-	-	-
All employees:											
Total.....do....	4,542	22	31	282	(D)	710	1,618	1,879	-	-	-
Payroll.....$1,000..	19,436	73	109	1,037	(D)	2,951	7,177	8,089	-	-	-
Value added, adjusted.....do....	35,304	111	195	1,288	(D)	5,232	10,774	17,704	-	-	-
Value of shipments.....do....	77,507	277	530	3,070	(D)	10,837	24,970	37,823	-	-	-
Capital expenditures, new...do....	1,858	25	25	89	(D)	535	282	902	-	-	-
INDUSTRY 3949.—SPORTING AND ATHLETIC GOODS											
Establishments.....number..	1,419	676	201	197	177	73	60	26	7	2	-
All employees:											
Total.....do....	40,543	1,075	1,303	2,773	5,505	5,102	9,548	8,757	6,480	(D)	-
Payroll.....$1,000..	175,777	3,415	4,896	10,511	21,524	21,736	37,772	41,923	34,000	(D)	-
Value added, adjusted.....do....	360,980	7,161	9,320	22,290	39,417	36,715	67,134	83,472	95,471	(D)	-
Value of shipments.....do....	704,718	15,345	20,529	42,866	82,703	81,280	138,463	148,160	175,372	(D)	-
Capital expenditures, new...do....	15,289	520	693	851	1,355	2,141	2,783	4,804	2,142	(D)	-
INDUSTRY 3951.—PENS AND MECHANICAL PENCILS											
Establishments.....number..	139	43	11	18	22	19	17	5	1	3	-
All employees:											
Total.....do....	11,562	80	73	229	681	1,339	2,547	2,230	(D)	4,383	-
Payroll.....$1,000..	54,968	310	218	871	2,652	4,693	11,139	9,482	(D)	25,603	-
Value added, adjusted.....do....	119,069	805	442	1,969	4,996	9,440	30,471	16,935	(D)	54,011	-
Value of shipments.....do....	185,464	2,027	1,264	4,270	11,408	22,548	47,655	27,757	(D)	68,535	-
Capital expenditures, new...do....	4,068	53	25	56	169	373	1,093	909	(D)	1,390	-
INDUSTRY 3952.—LEAD PENCILS AND ART GOODS											
Establishments.....number..	144	53	18	16	27	12	10	7	1	-	-
All employees:											
Total.....do....	6,868	86	125	224	893	934	1,500	3,106	(D)	-	-
Payroll.....$1,000..	31,944	478	623	917	4,140	4,318	5,423	16,045	(D)	-	-
Value added, adjusted.....do....	64,731	1,016	1,054	2,466	8,971	8,788	10,341	32,095	(D)	-	-
Value of shipments.....do....	121,630	1,887	2,391	4,726	18,837	17,589	19,511	56,689	(D)	-	-
Capital expenditures, new...do....	1,594	28	43	46	231	245	172	829	(D)	-	-
INDUSTRY 3953.—MARKING DEVICES											
Establishments.....number..	616	308	122	96	59	23	6	2	-	-	-
All employees:											
Total.....do....	7,625	474	823	1,324	1,672	1,589	1,743	(D)	-	-	-
Payroll.....$1,000..	41,367	2,516	4,106	6,940	9,664	8,906	9,235	(D)	-	-	-
Value added, adjusted.....do....	85,572	6,004	7,216	12,011	16,088	14,993	29,260	(D)	-	-	-
Value of shipments.....do....	126,845	8,995	10,605	16,974	23,320	25,369	41,582	(D)	-	-	-
Capital expenditures, new...do....	2,204	193	208	362	363	315	763	(D)	-	-	-
INDUSTRY 3955.—CARBON PAPER AND INKED RIBBONS											
Establishments.....number..	102	21	14	15	20	17	10	4	1	-	-
All employees:											
Total.....do....	5,539	44	100	214	677	1,237	1,479	1,788	(D)	-	-
Payroll.....$1,000..	31,480	235	519	1,173	3,792	7,259	8,395	10,107	(D)	-	-
Value added, adjusted.....do....	68,353	286	961	2,342	7,483	15,181	20,166	21,934	(D)	-	-
Value of shipments.....do....	155,513	801	2,606	5,977	18,432	33,740	45,355	48,602	(D)	-	-
Capital expenditures, new...do....	2,277	9	28	145	291	655	569	580	(D)	-	-
INDUSTRY 3961.—COSTUME JEWELRY											
Establishments.....number..	912	375	171	162	113	49	30	6	5	1	-
All employees:											
Total.....do....	21,655	694	1,169	2,181	3,487	3,500	4,100	2,216	4,308	(D)	-
Payroll.....$1,000..	85,268	2,240	3,843	7,292	13,027	13,284	16,466	10,536	18,580	(D)	-
Value added, adjusted.....do....	150,999	5,520	6,902	14,491	24,016	23,043	23,835	16,283	36,909	(D)	-
Value of shipments.....do....	280,478	10,135	14,009	27,124	52,314	47,343	46,213	26,894	56,446	(D)	-
Capital expenditures, new...do....	3,825	477	437	527	670	577	376	244	517	(D)	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3962.—ARTIFICIAL FLOWERS											
Establishments.....number..	384	166	80	68	56	7	6	1	-	-	-
All employees:											
Total.....do....	4,958	325	523	912	1,664	471	1,063	(D)	-	-	-
Payroll.....$1,000..	16,338	858	1,725	3,047	5,651	1,715	3,342	(D)	-	-	-
Value added, adjusted.....do....	29,194	2,195	3,425	5,546	8,729	3,148	6,151	(D)	-	-	-
Value of shipments.....do....	60,418	4,521	7,898	11,037	18,821	5,452	12,689	(D)	-	-	-
Capital expenditures, new...do....	736	53	94	113	216	98	162	(D)	-	-	-
INDUSTRY 3963.—BUTTONS											
Establishments.....number..	290	93	67	61	40	20	9	-	-	-	-
All employees:											
Total.....do....	5,599	188	428	833	1,232	1,463	1,455	-	-	-	-
Payroll.....$1,000..	23,024	620	1,463	2,938	4,602	5,742	7,659	-	-	-	-
Value added, adjusted.....do....	43,751	1,266	2,845	5,415	7,093	13,045	14,087	-	-	-	-
Value of shipments.....do....	81,835	2,015	4,474	9,777	14,432	23,944	27,193	-	-	-	-
Capital expenditures, new...do....	1,040	18	58	170	144	239	411	-	-	-	-
INDUSTRY 3964.—NEEDLES, PINS, AND FASTENERS											
Establishments.....number..	343	80	52	62	77	28	27	9	7	1	-
All employees:											
Total.....do....	20,271	153	342	829	2,405	2,031	4,644	3,059	6,808	(D)	-
Payroll.....$1,000..	89,431	602	1,213	3,056	9,294	9,492	19,221	13,791	32,762	(D)	-
Value added, adjusted.....do....	190,868	1,509	2,826	5,878	21,172	19,583	55,128	27,552	57,220	(D)	-
Value of shipments.....do....	337,285	3,406	7,090	12,000	43,352	37,138	96,681	46,890	90,728	(D)	-
Capital expenditures, new...do....	7,428	94	192	202	755	773	1,900	836	2,676	(D)	-
INDUSTRY 3981.—BROOMS AND BRUSHES											
Establishments.....number..	643	302	90	84	86	46	24	9	1	1	-
All employees:											
Total.....do....	16,637	553	624	1,162	2,829	3,248	3,456	4,765	(D)	(D)	-
Payroll.....$1,000..	73,620	1,867	2,142	4,400	11,540	12,527	15,340	25,804	(D)	(D)	-
Value added, adjusted.....do....	167,866	3,568	3,829	7,274	23,648	26,509	27,045	75,993	(D)	(D)	-
Value of shipments.....do....	321,129	7,882	8,548	15,890	46,503	48,589	56,522	137,195	(D)	(D)	-
Capital expenditures, new...do....	4,394	144	143	239	410	542	522	2,394	(D)	(D)	-
INDUSTRY 3982.—HARD SURFACE FLOOR COVERINGS											
Establishments.....number..	16	-	1	2	3	1	3	2	3	-	1
All employees:											
Total.....do....	6,192	-	188	(D)	(D)	(D)	563	5,441	(D)	-	(D)
Payroll.....$1,000..	38,965	-	1,269	(D)	(D)	(D)	3,427	34,269	(D)	-	(D)
Value added, adjusted.....do....	118,832	-	2,385	(D)	(D)	(D)	7,447	109,000	(D)	-	(D)
Value of shipments.....do....	204,112	-	5,001	(D)	(D)	(D)	14,940	184,171	(D)	-	(D)
Capital expenditures, new...do....	4,441	-	28	(D)	(D)	(D)	170	4,243	(D)	-	(D)
INDUSTRY 3983.—MATCHES											
Establishments.....number..	26	2	1	-	6	3	7	5	2	-	-
All employees:											
Total.....do....	4,647	202	(D)	-	(D)	229	1,112	3,104	(D)	-	-
Payroll.....$1,000..	21,659	889	(D)	-	(D)	1,095	5,408	14,267	(D)	-	-
Value added, adjusted.....do....	38,666	1,564	(D)	-	(D)	2,564	7,962	26,576	(D)	-	-
Value of shipments.....do....	64,131	2,841	(D)	-	(D)	4,027	15,509	41,754	(D)	-	-
Capital expenditures, new...do....	1,876	29	(D)	-	(D)	36	93	1,718	(D)	-	-
INDUSTRY 3984.—CANDLES											
Establishments.....number..	111	48	14	17	16	8	5	3	-	-	-
All employees:											
Total.....do....	3,167	175	(D)	240	466	575	771	940	-	-	-
Payroll.....$1,000..	13,225	516	(D)	973	1,817	2,563	3,038	4,318	-	-	-
Value added, adjusted.....do....	26,306	1,176	(D)	1,958	3,934	4,674	5,498	9,066	-	-	-
Value of shipments.....do....	45,515	2,398	(D)	3,934	6,839	8,265	9,361	14,718	-	-	-
Capital expenditures, new...do....	773	60	(D)	46	122	158	123	264	-	-	-

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 3987.—LAMPSHADES											
Establishments.....number..	228	115	27	38	32	11	4	1	-	-	-
All employees:											
Total.....do....	3,583	211	170	538	993	758	913	(D)	-	-	-
Payroll.....$1,000..	12,775	642	552	2,050	3,524	2,536	3,471	(D)	-	-	-
Value added, adjusted.....do....	20,476	1,289	1,023	3,390	5,317	4,171	5,286	(D)	-	-	-
Value of shipments.....do....	37,485	2,180	1,787	6,767	10,025	7,775	8,951	(D)	-	-	-
Capital expenditures, new...do....	530	80	47	85	192	98	28	(D)	-	-	-
INDUSTRY 3988.—MORTICIANS' GOODS											
Establishments.....number..	617	157	115	121	149	42	25	6	2	-	-
All employees:											
Total.....do....	17,283	277	795	1,752	4,672	2,747	3,849	3,191	(D)	-	-
Payroll.....$1,000..	86,218	1,144	2,969	7,980	21,823	12,631	20,036	19,635	(D)	-	-
Value added, adjusted.....do....	158,422	2,805	6,040	14,291	38,624	22,186	36,091	38,385	(D)	-	-
Value of shipments.....do....	290,036	5,995	12,872	32,008	80,145	43,265	57,784	57,967	(D)	-	-
Capital expenditures, new...do....	5,455	135	239	414	954	505	1,119	2,089	(D)	-	-
INDUSTRY 3992.—FURS, DRESSED AND DYED											
Establishments.....number..	132	66	18	22	12	6	8	-	-	-	-
All employees:											
Total.....do....	2,577	133	132	306	365	396	1,245	-	-	-	-
Payroll.....$1,000..	20,092	892	694	2,097	2,249	3,033	11,127	-	-	-	-
Value added, adjusted.....do....	30,240	1,902	277	4,616	3,338	3,949	16,158	-	-	-	-
Value of shipments.....do....	42,007	3,565	1,930	9,080	4,812	5,209	17,411	-	-	-	-
Capital expenditures, new...do....	227	8	25	50	18	(D)	126	-	-	-	-
INDUSTRY 3993.—SIGNS AND ADVERTISING DISPLAYS											
Establishments.....number..	3,206	1,588	570	478	387	120	55	8	-	-	-
All employees:											
Total.....do....	43,476	2,720	3,796	6,500	11,648	8,369	8,028	2,415	-	-	-
Payroll.....$1,000..	242,593	13,478	19,387	35,298	68,038	45,767	46,915	13,710	-	-	-
Value added, adjusted.....do....	407,478	29,712	35,270	57,043	107,689	75,277	79,673	22,814	-	-	-
Value of shipments.....do....	646,772	48,212	54,714	89,793	167,849	120,964	123,648	41,592	-	-	-
Capital expenditures, new...do....	15,042	1,744	1,461	2,135	4,525	2,856	1,695	626	-	-	-
INDUSTRY 3995.—UMBRELLAS, PARASOLS, AND CANES											
Establishments.....number..	112	33	16	28	23	8	4	-	-	-	-
All employees:											
Total.....do....	2,604	61	105	374	764	547	753	-	-	-	-
Payroll.....$1,000..	10,151	163	389	1,466	2,973	2,048	3,112	-	-	-	-
Value added, adjusted.....do....	16,101	430	605	2,257	5,079	2,978	4,752	-	-	-	-
Value of shipments.....do....	36,630	755	1,486	5,765	11,616	7,431	9,577	-	-	-	-
Capital expenditures, new...do....	190	6	12	25	25	51	71	-	-	-	-
INDUSTRY 3999.—MISCELLANEOUS PRODUCTS, N.E.C.											
Establishments.....number..	1,499	695	252	230	190	72	43	15	1	1	-
All employees:											
Total.....do....	30,138	1,142	1,711	3,271	5,937	5,099	6,151	6,827	(D)	(D)	-
Payroll.....$1,000..	129,350	4,407	6,564	12,805	23,967	22,421	25,425	33,761	(D)	(D)	-
Value added, adjusted.....do....	252,170	11,469	14,571	25,992	48,351	43,742	43,580	64,465	(D)	(D)	-
Value of shipments.....do....	458,471	19,224	25,578	43,911	87,120	86,151	83,188	113,299	(D)	(D)	-
Capital expenditures, new...do....	9,888	614	657	911	2,192	1,769	2,152	1,593	(D)	(D)	-
INDUSTRY 1925.—COMPLETE GUIDED MISSILES											
Establishments.....number..	31	-	2	-	4	2	2	2	-	6	13
All employees:											
Total.....do....	148,908	-	279	-	(D)	(D)	976	(D)	-	9,409	138,244
Payroll.....$1,000..	1,325,803	-	2,923	-	(D)	(D)	8,516	(D)	-	93,187	1,221,177
Value added, adjusted[36].....do....	1,924,812	-	4,570	-	(D)	(D)	25,459	(D)	-	153,194	1,741,589
Value of shipments[2].....do....	3,053,863	-	7,078	-	(D)	(D)	40,066	(D)	-	232,077	2,774,642
Capital expenditures, new...do....	48,849	-	56	-	(D)	(D)	1,366	(D)	-	2,853	44,574

See footnotes at end of table.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Item	Establishments, total	Establishments with an average of— 1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 to 2,499 employees	2,500 employees and over
INDUSTRY 1929.—AMMUNITION, N.E.C.											
Establishments.....number..	44	6	3	1	5	1	10	3	7	4	4
All employees:											
Total.....do....	32,578	9	37	(D)	223	(D)	1,615	1,155	5,716	7,297	16,526
Payroll.....$1,000..	202,208	64	262	(D)	1,420	(D)	9,273	6,796	33,807	40,471	110,115
Value added, adjusted.....do....	285,772	133	295	(D)	4,155	(D)	14,485	10,663	38,538	52,743	164,762
Value of shipments.....do....	503,001	183	736	(D)	9,140	(D)	25,697	21,024	84,273	85,399	276,549
Capital expenditures, new...do....	7,619	[7]572	(D)	(D)	(D)	(D)	466	105	846	3,216	2,414
INDUSTRY 1931.—TANKS AND TANK COMPONENTS											
Establishments.....number..	26	4	2	1	3	5	3	4	1	1	2
All employees:											
Total.....do....	11,307	3	25	(D)	111	378	498	1,697	8,595	(D)	(D)
Payroll.....$1,000..	76,583	17	124	(D)	509	2,666	2,384	11,433	59,450	(D)	(D)
Value added, adjusted.....do....	148,369	31	182	(D)	745	3,619	4,280	16,139	123,373	(D)	(D)
Value of shipments.....do....	394,144	60	425	(D)	2,246	9,639	13,099	61,342	307,333	(D)	(D)
Capital expenditures, new...do....	5,249	5	(D)	(D)	13	5,231	(D)	(D)	(D)	(D)	(D)
INDUSTRY 1941.—SIGHTING AND FIRE CONTROL EQUIPMENT											
Establishments.....number..	13	3	1	1	-	1	3	-	1	2	1
All employees:											
Total.....do....	9,249	124	(D)	(D)	-	(D)	1,068	-	(D)	8,057	(D)
Payroll.....$1,000..	66,949	700	(D)	(D)	-	(D)	7,581	-	(D)	58,668	(D)
Value added, adjusted.....do....	96,281	822	(D)	(D)	-	(D)	11,569	-	(D)	83,890	(D)
Value of shipments.....do....	156,568	1,368	(D)	(D)	-	(D)	18,484	-	(D)	136,716	(D)
Capital expenditures, new...do....	3,631	23	(D)	(D)	-	(D)	844	-	(D)	2,764	(D)
INDUSTRY 1951.—SMALL ARMS, 30 MM. AND UNDER											
Establishments.....number..	52	21	3	5	7	4	2	3	5	1	1
All employees:											
Total.....do....	9,995	25	22	68	245	721	(D)	1,179	7,735	(D)	(D)
Payroll.....$1,000..	57,347	229	103	324	1,265	3,905	(D)	6,470	45,051	(D)	(D)
Value added, adjusted.....do....	88,302	459	139	598	2,664	7,185	(D)	9,671	67,586	(D)	(D)
Value of shipments.....do....	133,042	659	244	871	3,765	12,610	(D)	14,928	99,965	(D)	(D)
Capital expenditures, new...do....	5,123	14	7	26	74	724	(D)	182	4,096	(D)	(D)
INDUSTRY 1961.—SMALL ARMS AMMUNITION											
Establishments.....number..	31	14	2	2	3	-	4	2	1	2	1
All employees:											
Total.....do....	8,909	21	39	(D)	104	-	1,122	(D)	7,623	(D)	(D)
Payroll.....$1,000..	51,895	90	101	(D)	526	-	6,106	(D)	45,072	(D)	(D)
Value added, adjusted.....do....	103,772	207	291	(D)	955	-	12,376	(D)	89,943	(D)	(D)
Value of shipments.....do....	192,454	472	542	(D)	2,078	-	21,396	(D)	167,966	(D)	(D)
Capital expenditures, new...do....	5,478	17	41	(D)	421	-	547	(D)	4,452	(D)	(D)
INDUSTRIES 1911 AND 1999.—GUNS, HOWITZERS, AND MORTARS AND ORDNANCE AND ACCESSORIES, N.E.C.											
Establishments.....number..	60	16	4	3	4	9	12	3	3	2	4
All employees:											
Total.....do....	24,988	51	(D)	40	105	718	2,061	1,135	4,495	(D)	16,383
Payroll.....$1,000..	176,169	422	(D)	271	441	3,486	11,222	6,189	30,700	(D)	123,438
Value added, adjusted.....do....	235,211	739	(D)	268	501	5,837	17,664	10,888	60,456	(D)	138,858
Value of shipments.....do....	350,975	4,945	(D)	351	1,221	9,162	30,496	19,505	80,275	(D)	205,020
Capital expenditures, new...do....	12,269	25	(D)	21	51	137	4,319	356	2,234	(D)	5,126

Note: For the "all industries" and major industry groups the data at the "Establishments, total" level and the individual size classes were derived from separate tabulations. Therefore the sum of the size class detail does not equal the "Establishments, total" because of (1) independent rounding and (2) independent review and correction of the separate tabulations. The differences between the sum of the size class detail and the "Establishments total" are always less than one half of one percent.

- Represents zero.
(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.
[1]Value of shipments for this industry contains extensive duplication (see text for detailed explanation).
[2]Represents value of work done.

TABLE 3. Selected Statistics, by Employment Size of Establishments: 1963—Continued

Footnotes for Table 3—Continued

[3]Includes $5-$10 million for plants under construction but not in operation.
[4]Includes $1-$2 million for plants under construction but not in operation.
[5]Includes $2-$5 million for plants under construction but not in operation.
[6]Includes less than $1 million for plants under construction but not in operation.
[7]Includes capital expenditures for plants under construction but not in operation which constitutes approximately $200-$500 thousand of the total for the size class.
[8]Includes capital expenditures for plants under construction but not in operation which constitute $10,000-$20,000 thousand for the size class.
[9]Includes capital expenditures for plants under construction but not in operation which constitute $2,000-$5,000 thousand of the total for the size class.
[10]Contains extensive duplication because the products of some establishments are used as materials by other establishments classified in the same industry.
[11]Includes capital expenditures for plants under construction but not in operation which constitute a small proportion of the total for the size class.
[12]Includes capital expenditures for plants under construction but not in operation which constitutes approximately $50-$100 thousand of the total for the size class.
[13]Data for manufacturers and jobbers are combined to prevent disclosure of information for individual companies.
[14]Includes 155 establishments with 2,944 employees classified in industry 2331, Blouses, which for 1963 provided no information on their detailed type of activity (manufacturer, jobber, or contractor). Figures for these companies are included in the total shown for the industry.
[15]Includes 667 establishments with 17,356 employees classified in industry 2335, Dresses, which for 1963 provided no information on their detailed type of activity (manufacturer, jobber, or contractor). Figures for these companies are included in the total shown for the industry.
[16]Includes 396 establishments with 8,082 employees classified in industry 2337, Suits, Skirts, and Coats, which for 1963 provided no information on their detailed type of activity (manufacturer, jobber, or contractors). Figures for these companies are included in the total shown for the industry.
[17]Includes capital expenditures for plants under construction but not in operation which constitute $5,000-$10,000 thousand of the total for the size class.
[18]Includes capital expenditures for plants under construction but not in operation which constitute $1,000-$2,000 thousand of the total for the size class.
[19]Includes capital expenditures of approximately $20-$50 thousand for plants under construction but not in operation.
[20]Includes capital expenditures of approximately $500-$1,000 thousand for plants under construction but not in operation.
[21]Includes capital expenditures of approximately $10-$29 million for plants under construction but not in operation.
[22]Includes capital expenditures of approximately $10-$15 million for plants under construction but not in operation.
[23]Includes capital expenditures for plants under construction but not in operation of approximately $10-$20 million.
[24]Includes capital expenditures for plants under construction but not in operation which constitute $100-$200 thousand of the total for the size class.
[25]Includes capital expenditures of over $10 million for plants under construction but not in operation.
[26]Includes capital expenditures between $500 thousand and $1 million for plants under construction but not in operation.
[27]Includes capital expenditures over $3 million for plants under construction but not in operation.
[28]Includes capital expenditures between $50 million and $100 million for plants under construction but not in operation.
[29]Value of shipments for this industry contains extensive duplication. This duplication arises because the products of some establishments are used as materials by other establishments classified in the same industry.
[30]Definitions are as follows: Fully integrated works are establishments having coke ovens, blast furnaces, steel works, and rolling and finishing mills or a forging department; partially integrated works with blast furnaces are establishments having blast furnaces, steel works, and rolling and finishing mills or a forging department; nonintegrated works represent all other types of establishments in this industry including beehive coke ovens, byproduct coke ovens operated independently of blast furnaces and steel departments; merchant blast furnaces, and establishments with hot-rolling and finishing operations. In a few cases, operations which are, in fact, fully integrated, are classified as partially integrated or non-integrated because separate establishment reports were collected either because the operations are conducted in different cities or towns, or the company treats the operations separately for their own administrative reasons.
[31]The subindustry separation for industry 3351 is based on the presence or lack of presence of the department described as "casting (except foundry)."
[32]Integrated producers represent companies which operate primary aluminum reduction facilities.
[33]Value of shipments for Industry 3717 include extension duplication. See text for more complete discussion.
[34]For 1963 the adjusted value added figure for the ship building and repairing industry has not been adjusted for the change in inventory between the beginning and end of the year, since the figures reported by establishments in this industry are value of work rather than value of shipments. It does include the value added by resales. For prior years, this figure in unadjusted value added.
[35]Represents value of work done rather than value of shipments.
[36]The adjusted value added for the Guided Missiles and Space Vehicles Industry does not take into account the change in inventory between the beginning and end of the year, since the figures reported by establishments in this industry represent value of work done rather than value of shipments. It does include value added by resales.

TABLE 4. Central Administrative Offices and Auxiliaries, by Employment-Size Class and Major Industry Groups of Establishments Serviced: 1963

Code	Major industry group	Establishments, total	Employment-size class of central administrative offices and auxiliaries						
			Less than 20 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees and over
	All industries, total:								
	Establishments	5,304	2,384	880	669	725	328	182	136
	Employees	726,477	17,014	28,311	47,142	114,074	113,190	123,775	282,971
20	Food and kindred products:								
	Establishment	1,066	630	185	89	95	38	21	8
	Employees	71,496	4,309	5,854	6,333	14,183	13,575	13,768	13,474
21	Tobacco manufactures:								
	Establishments	60	33	9	5	8	-	3	2
	Employees	6,511	C	248	318	1,202	-	2,003	G
22	Textile mill products:								
	Establishments	223	82	52	34	35	15	2	3
	Employees	19,924	E	1,623	2,441	5,152	5,392	F	3,441
23	Apparel and related products:								
	Establishment	218	106	50	28	27	5	2	-
	Employees	11,002	825	1,631	2,007	3,823	F	F	-
24	Lumber and wood products:								
	Establishments	153	87	33	21	10	2	-	-
	Employees	5,579	E	1,188	1,434	1,652	E	-	-
25	Furniture and fixtures:								
	Establishments	57	21	9	9	14	4	-	-
	Employees	4,673	162	231	625	2,287	1,368	-	-
26	Paper and allied products:								
	Establishments	191	77	29	35	25	14	7	4
	Employees	25,815	608	916	2,415	3,836	4,955	4,540	8,548
27	Printing and publishing:								
	Establishments	304	196	44	27	27	8	2	-
	Employees	11,850	F	1,419	1,879	3,676	2,433	F	-
28	Chemicals and allied products:								
	Establishments	579	196	88	78	113	54	32	18
	Employees	115,707	1,566	2,854	5,605	17,887	18,247	22,626	46,922
29	Petroleum and coal products:								
	Establishments	217	66	29	22	34	28	18	20
	Employees	66,417	493	947	1,536	5,755	9,389	13,029	35,268
30	Rubber and plastics products, n.e.c.:								
	Establishments	72	33	11	10	11	3	-	4
	Employees	11,757	184	325	729	1,632	1,017	-	7,870
31	Leather and leather products:								
	Establishments	73	32	11	14	8	6	-	2
	Employees	7,582	C	340	929	1,320	2,003	-	G
32	Stone, clay and glass products:								
	Establishments	347	163	58	61	41	13	7	4
	Employees	28,905	1,191	1,965	4,216	6,469	4,362	4,430	6,272
33	Primary metal industries:								
	Establishments	226	76	42	35	39	16	12	6
	Employees	40,417	630	1,405	2,480	6,131	5,708	8,416	15,648
34	Fabricated metal products:								
	Establishments	300	116	61	48	46	19	6	4
	Employees	28,547	873	1,910	3,334	7,538	6,318	3,830	4,744
35	Machinery, except electrical:								
	Establishments	394	178	55	48	61	20	17	15
	Employees	61,197	1,198	1,870	3,504	10,031	7,425	11,192	25,977
36	Electrical machinery:								
	Establishments	417	143	53	62	66	48	23	22
	Employees	100,359	971	1,619	4,361	11,031	16,679	15,731	49,967
37	Transportation equipment:								
	Establishments	214	60	28	21	38	20	25	22
	Employees	88,579	379	870	1,415	6,052	6,797	17,176	55,890
38	Instruments and related products:								
	Establishments	79	31	11	10	17	6	3	1
	Employees	10,991	D	353	736	2,885	2,132	2,027	G
39	Miscellaneous manufacturing:[1]								
	Establishments	114	58	22	12	10	9	2	1
	Employees	9,169	D	743	848	1,532	3,167	F	F

Note: In order to avoid disclosing figures for individual companies the following employment size codes have been used: C - 100-249 employees D - 250-499 employees E - 500-999 employees F - 1,000-2,499 employees G - 2,500-4,999 employees.

Standard notes: - Represents zero. (D) Withheld to avoid disclosing figures for induvidual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

[1]Include data for units servicing establishments classified in Major Group 19, "Ordnance and Accessories."

Type of Organization

Chapter 3

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TYPE OF ORGANIZATION

Information concerning whether a plant is either independent or part of a multiestablishment company contributes importantly to our knowledge of the structure of manufactures in the United States. However, this classification is significantly affected by the way in which the census of manufactures is taken. In 1947, it was not taken in conjunction with the census of business (1948) or mineral industries (1954) and the multiunit classification depended on whether or not the company operated more than one manufacturing plant. In 1954 and since, the census of manufactures has been conducted in conjunction with the censuses of business and mineral industries, and so the multiunit classification now depends on whether or not the company operates at more than one location within the temporal spans of those censuses. Thus, in 1954, 1958, and 1963, a company with one manufacturing plant and a nonmanufacturing location or separate administrative office was classified as multiunit. While the importance of multiunit establishments, in terms of employment and value added, has increased since 1947 (see table 1), part of this increase is undoubtedly due to the change in collection procedures that took place between 1947 and 1954. However, during those years, this increase in employment and value added was accompanied by a decline in the percentage of establishments accounted for by multiunit companies. Part of this was due to the inclusion in the 1954 Census of Manufactures of industries characterized by a large number of small firms (e.g., milk distribution and logging) which account for a very small amount of the total manufacturing employment and value added. This shifting in the determination of single and multiunit establishments did not occur after the 1954 Census and the 1958 and 1963 data are completely comparable.

Each establishment was asked to report the form of organization of the company which operated it (e.g., corporation, partnership, proprietorship, cooperative, or "other"). In most census years, and especially in 1963, a significant number of small companies operating under contract either failed to properly report or improperly reported "other." Most of these were assumed to be proprietorships if they had less than 20 employees; or corporations if they had 20 or more employees. (See also footnote 3 to table 1 for further qualification of the data.)

TABLE 1. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization: 1963, 1958, 1954, and 1947

Item and year[1]	All establishments	Type of operation[2]: Multiunit companies: Total	Multiunit companies: Corporate ownership or control	Multiunit companies: Noncorporate ownership	Single unit companies: Total	Single unit companies: Corporate ownership or control	Single unit companies: Noncorporate ownership	Legal form of organization[2]: Corporate	Noncorporate: Total[3]	Noncorporate: Individual	Noncorporate: Partnership
ESTABLISHMENTS:											
1963 .NUMBER.	306 617	45 862	43 568	2 294	260 755	132 622	128 133	176 190	130 427	99 174	27 677
1958 .DO.	298 182	41 871	39 048	2 823	256 311	123 701	132 610	162 749	135 433	91 276	41 958
1954 .DO.	286 814	31 769	29 820	1 949	255 045	118 641	136 404	148 461	138 353	88 224	47 885
1947 .DO.	240 807	35 202	29 557	5 645	205 605	88 545	117 060	118 102	122 705	69 498	50 771
ALL EMPLOYEES:											
TOTAL:											
1963 1,000.	16 235	11 015	10 890	125	5 220	4 355	865	15 245	990	536	334
1958 .DO.	15 381	10 064	9 964	100	5 317	4 252	1 065	14 215	1 165	542	-543
1954 .DO.	15 645	9 480	9 387	93	6 165	4 886	1 279	14 273	1 372	593	703
1947 .DO.	14 294	8 007	7 830	177	6 287	5 026	1 261	12 856	1 438	586	757
PAYROLL:											
1963 MILLION DOLLARS.	93 289	68 202	67 602	599	25 087	21 754	3 333	89 356	3 932	2 033	1 034
1958 .DO.	73 673	51 785	51 407	378	21 887	18 478	3 409	69 885	3 787	1 637	1 836
1954 .DO.	62 963	40 623	40 309	314	22 340	18 742	3 598	59 051	3 912	1 527	2 108
1947 .DO.	39 696	22 788	22 400	388	16 907	14 180	2 727	36 580	3 115	1 184	1 687
PRODUCTION WORKERS:											
TOTAL:											
1963 1,000.	12 232	8 110	8 017	93	4 122	3 409	713	11 426	806	440	277
1958 .DO.	11 367	7 174	7 097	77	4 193	3 301	892	10 398	969	461	452
1954 .DO.	12 372	7 402	7 327	75	4 970	3 879	1 091	11 206	1 166	507	602
1947 .DO.	11 918	6 686	6 535	151	5 232	4 114	1 118	10 649	1 269	522	673
WAGES:											
1963 MILLION DOLLARS.	62 094	44 721	44 325	396	17 373	14 739	2 634	59 064	3 030	1 595	1 062
1958 .DO.	48 471	33 369	33 103	266	15 102	12 352	2 750	45 455	3 016	1 349	1 458
1954 .DO.	44 591	28 987	28 758	229	15 604	12 722	2 882	41 480	3 111	1 237	1 684
1947 .DO.	30 244	17 787	17 493	294	12 457	10 144	2 313	27 637	2 607	1 001	1 432
VALUE ADDED BY MANUFACTURE:											
1963 .DO.	192 103	146 605	145 269	1 336	45 497	38 831	6 666	184 100	8 002	3 916	2 726
1958 .DO.	143 159	105 306	104 475	831	37 853	31 169	6 684	135 644	7 515	3 115	3 663
1954 .DO.	117 032	79 604	78 977	627	37 428	30 692	6 736	109 669	7 363	2 735	4 054
1947 .DO.	74 290	43 947	43 208	739	30 343	25 086	5 257	68 294	5 996	2 162	3 347
CAPITAL EXPENDITURES, NEW:[4]											
1963 .DO.	11 371	8 934	8 832	102	2 437	1 959	478	10 791	580	315	141
1958 .DO.	9 531	7 525	7 465	60	2 006	1 461	545	8 926	605	317	223
1954 .DO.	8 201	6 485	6 435	50	1 716	1 317	399	7 752	449	176	216
1947 .DO.	5 998	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

[1]The 1958 and 1963 figures include establishments classified in industry 3273, Ready Mixed Concrete, and establishments classified in industry 3599, Miscellaneous Machinery, that were engaged exclusively or almost exclusively in machine shop repair work. The data for such establishments are excluded from the 1954 and 1947 figures. The 1963, 1958 and 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, industry group 202, Dairies. These establishments were not included in the 1947 figures. In addition, the 1963, 1958 and 1954 census figures include data for logging camps and contractors, industry 2411, which were not included within the scope of the 1947 Census. Data for Alaska and Hawaii, which are included for 1963, are not available on a type-of-operation and legal form of organization basis for 1958 and earlier years.

[2]All data are based on reports for individual manufacturing establishments, and not on a company basis. Each establishment of multiestablishment companies is classified by its primary industrial activity. For this reason the statistics presented in this table cannot be compared directly with tabulations in which the whole corporation or company is the reporting unit and the entire company is classified in one industry, for example, 1"Statistics of Income, Corporation Income Tax Returns" compiled by the Bureau of Internal Revenue, U.S. Treasury Department. Since 1958, establishments were classified as part of a multiunit company when the company operated two or more establishments, of which at least one was a manufacturing establishment. In 1947, establishments were considered part of a multiunit only if the company operated 2 or more manufacturing establishments.

[3]The difference between the sum of individual and partnership forms of organization and the total for non-corporate is represented by other noncorporate forms including cooperatives, establishments operated by estate administrators, trusteeships, receiverships, public and quasi-public organizations, and in addition, the mis-assignment of small establishments that were not corrected since they were not statistically significant. This residual category not shown in the table above, therefore is not directly comparable to the "other" category shown for earlier years.

[4]The figures for 1954, 1958, and 1963 include expenditures for plants under instruction and not yet in operation. This information was not collected for 1947.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
	ALL INDUSTRIES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	306 617	45 862	43 568	2 294	260 755	132 622	128 133	176 150	130 467	99 174	27 677
	WITH 20 EMP. OR MORE..DO..	99 352	35 618	34 478	1 140	63 734	55 450	8 284	89 928	9 424	3 882	4 310
	ALL EMPLOYEES:											
	TOTAL.....DO..	16 234 506	11 014 715	10 890 127	124 588	5 219 791	4 354 861	864 930	15 244 988	989 518	535 655	333 916
	PAYROLL.....$1,000..	93 288 785	68 201 877	67 602 417	599 460	25 086 908	21 754 292	3 332 616	89 356 709	3 932 076	2 032 929	1 340 447
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	12 232 041	8 109 719	8 016 874	92 845	4 122 322	3 409 164	713 158	11 426 128	805 913	439 965	277 268
	MAN-HOURS.....1,000..	24 509 450	16 394 769	16 209 639	185 130	8 114 681	6 735 042	1 379 639	22 944 681	1 564 769	849 356	537 778
	WAGES.....$1,000..	62 093 601	44 721 052	44 325 105	395 947	17 372 549	14 738 614	2 633 935	59 063 719	3 029 882	1 594 953	1 062 087
	VALUE ADDED, ADJUSTED...DO..	192 103 102	146 605 811	145 269 340	1 336 471	45 497 291	38 830 845	6 666 446	184 100 185	8 002 917	3 916 260	2 725 616
	CAPITAL EXPEND., NEW[3]...DO..	11 370 935	8 934 020	8 832 113	101 907	2 436 915	1 959 026	477 889	10 791 139	579 796	314 756	141 248
20	FOOD AND KINDRED PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	37 521	8 761	7 756	1 005	28 760	13 205	15 555	20 961	16 560	10 979	3 970
	WITH 20 EMP. OR MORE..DO..	14 113	6 472	5 947	525	7 641	6 239	1 402	12 186	1 927	569	714
	ALL EMPLOYEES:											
	TOTAL.....DO..	1 643 111	1 053 402	1 001 533	51 869	589 709	455 290	134 419	1 456 823	186 288	68 257	53 166
	PAYROLL.....$1,000..	8 637 152	5 930 547	5 689 848	240 699	2 706 605	2 208 705	497 900	7 898 553	738 599	232 910	208 900
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	1 098 116	713 200	677 383	35 817	384 916	293 632	91 284	971 015	127 101	46 215	35 120
	MAN-HOURS.....1,000..	2 228 013	1 442 350	1 370 650	71 700	785 663	598 840	186 823	1 969 490	258 523	94 107	71 085
	WAGES.....$1,000..	5 159 376	3 645 458	3 494 898	150 560	1 513 918	1 203 132	310 786	4 698 030	461 346	146 297	118 551
	VALUE ADDED, ADJUSTED...DO..	21 825 516	16 004 818	15 373 870	630 948	5 820 698	4 607 715	1 212 983	19 981 585	1 843 931	546 629	491 932
	CAPITAL EXPEND., NEW[3]...DO..	1 249 245	874 873	836 286	38 587	374 372	281 918	92 454	1 118 204	131 041	41 926	29 191
2011	MEAT SLAUGHTERING PLANTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	2 992	355	293	62	2 637	970	1 667	1 263	1 729	1 241	451
	WITH 20 EMP. OR MORE....DO..	976	258	245	13	718	598	120	843	133	43	80
	ALL EMPLOYEES:											
	TOTAL.....DO..	180 873	123 117	121 496	1 621	57 756	46 511	11 245	168 007	12 866	5 368	6 296
	PAYROLL.....$1,000..	1 146 947	835 498	827 282	8 216	311 449	263 208	48 241	1 090 490	56 457	20 930	29 867
	VALUE ADDED, ADJUSTED.....DO..	1 908 309	1 277 853	1 261 377	16 476	630 456	501 889	128 567	1 763 266	145 043	61 267	73 998
	VALUE OF SHIPMENTS[4].....DO..	12 435 454	8 048 549	7 947 853	100 696	4 386 905	3 700 464	686 441	11 648 317	787 137	282 616	435 168
2013	MEAT PROCESSING PLANTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 341	172	155	17	1 169	592	577	747	594	432	153
	WITH 20 EMP. OR MORE....DO..	483	141	136	5	342	303	39	439	44	16	24
	ALL EMPLOYEES:											
	TOTAL.....DO..	48 599	20 961	20 558	403	27 638	23 665	3 973	44 223	4 376	2 244	1 879
	PAYROLL.....$1,000..	289 405	130 731	128 499	2 232	158 674	140 197	18 477	268 696	20 709	9 063	10 194
	VALUE ADDED, ADJUSTED.....DO..	563 362	255 603	250 592	5 011	307 741	264 894	42 847	515 486	47 858	17 946	27 559
	VALUE OF SHIPMENTS.....DO..	2 130 275	990 963	969 566	21 397	1 139 312	997 179	142 133	1 966 745	163 530	69 668	82 767
2015	POULTRY DRESSING PLANTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	967	229	191	38	738	338	400	529	438	297	87
	WITH 20 EMP. OR MORE....DO..	559	212	178	34	347	268	79	446	113	34	34
	ALL EMPLOYEES:											
	TOTAL.....DO..	70 104	33 057	27 528	5 529	37 047	28 958	8 089	56 486	13 618	3 453	2 619
	PAYROLL.....$1,000..	204 400	97 498	82 126	15 372	106 902	86 894	20 008	169 020	35 380	7 911	6 423
	VALUE ADDED, ADJUSTED.....DO..	410 909	187 421	160 971	26 450	223 488	176 289	47 199	337 260	73 649	17 449	15 626
	VALUE OF SHIPMENTS.....DO..	2 240 871	1 059 766	906 337	153 429	1 181 105	953 740	227 365	1 860 077	380 794	90 858	74 565
2021	CREAMERY BUTTER											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	766	125	68	57	641	98	543	166	600	145	45
	WITH 20 EMP. OR MORE....DO..	178	81	42	39	97	22	75	64	114	2	7
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 992	4 992	2 618	2 374	7 000	1 481	5 519	4 099	7 893	697	384
	PAYROLL.....$1,000..	52 870	23 932	12 245	11 687	28 938	6 484	22 454	18 729	34 141	2 677	1 492
	VALUE ADDED, ADJUSTED.....DO..	132 665	58 771	23 111	35 660	73 894	16 261	57 633	39 372	93 293	6 639	3 529
	VALUE OF SHIPMENTS.....DO..	988 777	426 671	206 490	220 181	562 106	114 931	447 175	321 421	667 356	48 772	25 475
2022	NATURAL AND PROCESS CHEESE											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 138	239	212	27	899	224	675	436	702	411	100
	WITH 20 EMP. OR MORE....DO..	206	117	106	11	89	63	26	169	37	6	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	17 956	10 074	9 352	722	7 882	4 266	3 616	13 618	4 338	1 802	760
	PAYROLL.....$1,000..	78 684	48 143	45 165	2 978	30 541	18 012	12 529	63 177	15 507	5 658	2 537
	VALUE ADDED, ADJUSTED.....DO..	179 750	109 452	102 066	7 386	70 298	37 772	32 526	139 838	39 912	14 943	8 308
	VALUE OF SHIPMENTS.....DO..	1 170 836	757 738	710 585	47 153	413 098	189 479	223 619	900 064	270 772	101 951	50 715
2023	CONDENSED AND EVAPORATED MILK											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	281	181	156	25	100	60	40	216	65	14	10
	WITH 20 EMP. OR MORE....DO..	166	134	113	21	32	19	13	132	34	-	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	12 255	10 111	8 488	1 623	2 144	1 185	959	9 673	2 582	50	123
	PAYROLL.....$1,000..	66 990	56 582	47 463	9 119	10 408	6 081	4 327	53 544	13 446	214	661
	VALUE ADDED, ADJUSTED.....DO..	236 250	212 688	190 375	22 313	23 562	14 094	9 468	204 469	31 781	749	1 280
	VALUE OF SHIPMENTS.....DO..	937 925	796 640	655 335	141 305	141 285	63 657	77 628	718 992	218 933	2 762	12 674
2024	ICE CREAM AND FROZEN DESSERTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 081	341	305	36	740	364	376	669	412	290	103
	WITH 20 EMP. OR MORE....DO..	387	242	226	16	145	127	18	353	34	7	19
	ALL EMPLOYEES:											
	TOTAL.....DO..	29 193	19 472	18 589	883	9 721	7 587	2 134	26 176	3 017	1 478	1 133
	PAYROLL.....$1,000..	158 257	114 913	110 671	4 242	43 344	35 853	7 491	146 524	11 733	5 398	3 944
	VALUE ADDED, ADJUSTED.....DO..	433 006	341 172	328 369	12 803	91 834	74 780	17 054	403 149	29 857	14 605	9 262
	VALUE OF SHIPMENTS.....DO..	1 076 479	841 805	812 411	29 394	234 674	191 628	43 046	1 004 039	72 440	33 561	22 803

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies				Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership	Corporate	Total[2]	Individual	Partnership
20	FOOD AND KINDRED PRODUCTS--CON.											
2026	FLUID MILK											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	4 619	1 003	826	177	3 616	1 500	2 116	2 326	2 293	1 387	533
	WITH 20 EMP. OR MORE....DO..	1 948	832	699	133	1 116	885	231	1 584	364	92	100
	ALL EMPLOYEES:											
	TOTAL.....DO..	185 050	105 577	91 787	13 790	79 473	56 876	22 597	148 663	36 387	10 566	8 161
	PAYROLL.....$1,000..	1 032 879	624 254	547 760	76 494	408 625	310 045	98 580	857 805	175 074	42 935	38 049
	VALUE ADDED, ADJUSTED.....DO..	2 203 196	1 419 199	1 259 794	159 405	783 997	575 036	208 961	1 834 830	368 366	86 596	72 627
	VALUE OF SHIPMENTS.....DO..	7 025 892	4 565 901	3 963 931	601 970	2 459 991	1 720 643	739 348	5 684 574	1 341 318	279 784	217 552
2031	CANNED AND CURED SEAFOODS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	405	114	110	4	291	160	131	270	135	97	33
	WITH 20 EMP. OR MORE....DO..	196	90	87	3	106	80	26	167	29	15	10
	ALL EMPLOYEES:											
	TOTAL.....DO..	17 271	10 677	10 484	193	6 594	4 959	1 635	15 443	1 828	996	648
	PAYROLL.....$1,000..	66 231	43 926	43 273	653	22 305	18 384	3 921	61 657	4 574	2 006	1 604
	VALUE ADDED, ADJUSTED[5]....DO..	174 634	122 529	121 124	1 405	52 105	42 946	9 159	164 070	10 564	4 571	3 248
	VALUE OF SHIPMENTS[5].....DO..	452 454	306 279	304 008	2 271	146 175	123 096	23 079	427 104	25 350	12 356	8 965
2032	CANNED SPECIALTIES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	173	55	54	1	118	53	65	107	66	51	14
	WITH 20 EMP. OR MORE....DO..	77	52	52	-	25	22	3	74	3	1	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	25 156	22 791	(D)	(D)	2 365	(D)	(D)	24 734	422	281	(D)
	PAYROLL.....$1,000..	127 168	116 638	(D)	(D)	10 530	(D)	(D)	125 937	1 231	751	(D)
	VALUE ADDED, ADJUSTED[5]....DO..	540 835	512 821	(D)	(D)	28 014	(D)	(D)	537 837	2 998	1 572	(D)
	VALUE OF SHIPMENTS[5].....DO..	1 169 299	1 098 291	(D)	(D)	71 008	(D)	(D)	1 160 258	9 041	5 887	(D)
2033	CANNED FRUITS AND VEGETABLES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 430	485	433	52	945	546	399	979	451	278	108
	WITH 20 EMP. OR MORE....DO..	836	421	372	49	415	322	93	694	142	40	46
	ALL EMPLOYEES:											
	TOTAL.....DO..	102 388	72 688	6 333	9 355	29 700	23 944	5 756	87 277	15 111	2 594	2 741
	PAYROLL.....$1,000..	382 057	287 212	247 329	39 883	94 845	80 941	13 904	328 270	53 787	5 294	6 629
	VALUE ADDED, ADJUSTED[5]....DO..	1 029 467	813 630	687 695	125 935	215 837	180 789	35 048	868 484	160 983	13 879	15 007
	VALUE OF SHIPMENTS[5].....DO..	2 742 787	2 128 824	1 829 249	299 575	613 963	521 411	92 552	2 350 660	392 127	36 022	40 102
2034	DEHYDRATED FOODS PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	176	77	45	32	99	47	52	92	84	27	21
	WITH 20 EMP. OR MORE....DO..	80	44	35	9	36	23	13	58	22	7	5
	ALL EMPLOYEES:											
	TOTAL.....DO..	9 152	6 229	5 309	920	2 923	1 701	1 222	7 010	2 142	309	328
	PAYROLL.....$1,000..	41 650	29 373	25 521	3 852	12 277	7 615	4 662	33 136	8 514	883	1 025
	VALUE ADDED, ADJUSTED.....DO..	115 795	88 089	75 260	12 829	27 706	17 725	9 981	92 985	22 810	2 038	2 290
	VALUE OF SHIPMENTS.....DO..	318 660	215 361	167 213	48 148	103 299	58 016	45 283	225 229	93 431	4 756	11 184
2035	PICKLES, SAUCES, SALAD DRESSINGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	588	116	107	9	472	245	227	352	236	171	62
	WITH 20 EMP. OR MORE....DO..	184	83	80	3	101	87	14	167	17	5	12
	ALL EMPLOYEES:											
	TOTAL.....DO..	19 041	10 977	10 835	142	8 064	6 645	1 419	17 480	1 561	830	(D)
	PAYROLL.....$1,000..	83 713	52 808	52 234	574	30 905	26 417	4 488	78 651	5 062	2 620	(D)
	VALUE ADDED, ADJUSTED[5]....DO..	249 397	181 520	179 759	1 761	67 877	56 769	11 108	236 528	12 869	6 824	(D)
	VALUE OF SHIPMENTS[5].....DO..	677 268	502 006	497 188	4 818	175 262	148 641	26 621	645 829	31 439	16 913	(D)
2036	FRESH OR FROZEN PACKAGED FISH											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	547	65	56	9	482	243	239	299	248	173	69
	WITH 20 EMP. OR MORE....DO..	255	51	47	4	204	150	54	197	58	30	24
	ALL EMPLOYEES:											
	TOTAL.....DO..	20 066	6 338	5 977	361	13 728	10 572	3 156	16 549	3 517	1 950	1 271
	PAYROLL.....$1,000..	56 471	21 639	20 982	657	34 832	29 535	5 297	50 517	5 954	3 461	1 970
	VALUE ADDED, ADJUSTED[5]....DO..	118 451	51 274	49 809	1 465	67 177	54 327	12 850	104 136	14 315	7 755	4 580
	VALUE OF SHIPMENTS[5].....DO..	391 174	180 982	177 504	3 478	210 192	173 752	36 440	351 256	39 918	22 178	11 968
2037	FROZEN FRUITS AND VEGETABLES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	650	191	182	9	459	315	144	497	153	106	30
	WITH 20 EMP. OR MORE....DO..	346	164	159	5	182	162	20	321	25	7	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	51 750	33 938	33 061	877	17 860	14 492	3 368	47 505	4 245	822	545
	PAYROLL.....$1,000..	202 798	133 404	129 718	3 686	69 335	57 003	12 332	186 780	16 018	2 321	1 809
	VALUE ADDED, ADJUSTED[5]....DO..	550 231	394 252	385 597	8 655	157 483	126 891	30 592	510 984	39 247	6 506	3 503
	VALUE OF SHIPMENTS[5].....DO..	1 548 663	1 068 355	1 045 216	23 139	480 527	353 131	127 396	1 398 128	150 535	15 059	10 777
2041	FLOUR MILLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	618	186	174	12	432	153	279	327	291	202	81
	WITH 20 EMP. OR MORE....DO..	218	159	154	5	59	53	6	207	11	2	8
	ALL EMPLOYEES:											
	TOTAL.....DO..	22 405	17 248	17 000	248	5 157	3 995	1 162	20 995	1 410	721	625
	PAYROLL.....$1,000..	137 663	111 182	109 874	1 308	26 481	22 501	3 980	132 375	5 288	2 834	2 098
	VALUE ADDED, ADJUSTED.....DO..	373 090	310 253	306 730	3 523	62 837	50 992	11 845	357 722	15 368	7 579	7 049
	VALUE OF SHIPMENTS.....DO..	2 176 529	1 850 337	1 832 237	18 100	326 192	281 707	44 485	2 113 944	62 585	29 784	25 242
2042	PREPARED ANIMAL FEEDS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	2 590	754	603	151	1 836	984	852	1 587	1 003	614	245
	WITH 20 EMP. OR MORE....DO..	711	400	341	59	311	258	53	599	112	25	27
	ALL EMPLOYEES:											
	TOTAL.....DO..	54 649	31 438	26 710	4 728	23 211	17 538	5 673	44 248	10 401	3 481	2 112
	PAYROLL.....$1,000..	278 729	170 909	147 508	23 401	107 820	86 242	21 578	233 750	44 979	12 539	8 173
	VALUE ADDED, ADJUSTED.....DO..	983 691	671 021	588 698	82 323	312 670	240 544	72 126	829 242	154 449	40 496	26 175
	VALUE OF SHIPMENTS.....DO..	3 880 122	2 635 742	2 183 800	451 942	1 244 380	950 576	293 804	3 134 376	745 746	156 918	104 797

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
20	FOOD AND KINDRED PRODUCTS--CONTINUED											
2043	CEREAL PREPARATIONS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	48	28	27	1	20	10	10	37	11	5	6
	WITH 20 EMP. OR MORE....DO..	30	25	24	1	5	4	1	28	2	1	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 358	11 136	(D)	(D)	222	(D)	(D)	11 268	90	45	45
	PAYROLL.....$1,000..	75 098	73 711	(D)	(D)	1 387	(D)	(D)	74 730	368	177	191
	VALUE ADDED, ADJUSTED.....DO..	365 022	360 549	(D)	(D)	4 473	(D)	(D)	363 919	1 103	411	692
	VALUE OF SHIPMENTS.....DO..	625 058	615 036	(D)	(D)	10 022	(D)	(D)	621 773	3 285	1 846	1 439
2044	RICE MILLING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	74	24	20	4	50	37	13	57	17	5	5
	WITH 20 EMP. OR MORE....DO..	49	24	20	4	25	22	3	42	7	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	4 256	2 657	(D)	(D)	1 599	(D)	(D)	3 135	1 121	14	35
	PAYROLL.....$1,000..	20 255	13 600	(D)	(D)	6 655	(D)	(D)	14 665	5 590	39	102
	VALUE ADDED, ADJUSTED.....DO..	80 507	58 380	(D)	(D)	22 127	(D)	(D)	56 296	24 211	204	259
	VALUE OF SHIPMENTS.....DO..	423 022	287 088	(D)	(D)	135 934	(D)	(D)	286 491	136 531	733	714
2045	BLENDED AND PREPARED FLOUR											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	165	51	49	2	114	71	43	120	45	33	11
	WITH 20 EMP. OR MORE....DO..	60	43	43	-	17	17	-	60	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	7 199	6 033	(D)	(D)	1 166	(D)	(D)	7 056	143	90	(D)
	PAYROLL.....$1,000..	45 391	39 395	(D)	(D)	5 996	(D)	(D)	44 816	575	389	(D)
	VALUE ADDED, ADJUSTED.....DO..	177 826	164 130	(D)	(D)	13 696	(D)	(D)	176 400	1 426	984	(D)
	VALUE OF SHIPMENTS.....DO..	434 023	394 011	(D)	(D)	40 012	(D)	(D)	429 635	4 388	2 715	(D)
2046	WET CORN MILLING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	60	27	27	-	33	24	9	51	9	5	3
	WITH 20 EMP. OR MORE....DO..	20	17	17	-	3	2	1	19	1	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	13 236	13 048	13 048	-	188	158	30	13 206	30	(D)	(D)
	PAYROLL.....$1,000..	89 742	88 738	88 738	-	1 004	855	149	89 593	149	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	290 918	287 951	287 951	-	2 967	2 422	545	290 373	545	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	622 442	616 100	616 100	-	6 342	5 272	1 070	621 372	1 070	(D)	(D)
2051	BREAD AND RELATED PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	5 010	1 104	1 005	99	3 906	1 247	2 659	2 252	2 758	2 040	686
	WITH 20 EMP. OR MORE....DO..	1 904	952	904	48	952	732	220	1 636	268	118	137
	ALL EMPLOYEES:											
	TOTAL.....DO..	236 984	160 007	157 138	2 869	76 977	55 968	21 009	213 106	23 878	13 250	9 701
	PAYROLL.....$1,000..	1 300 329	931 739	919 926	11 813	368 590	294 046	74 544	1 213 972	86 357	44 193	37 986
	VALUE ADDED, ADJUSTED.....DO..	2 403 782	1 757 255	1 746 179	20 090	646 527	514 816	131 711	2 251 981	151 801	77 100	67 979
	VALUE OF SHIPMENTS.....DO..	4 505 995	3 296 449	3 266 920	38 559	1 209 546	952 319	257 227	4 210 209	295 786	155 192	127 527
2052	BISCUIT, CRACKERS AND COOKIES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	356	124	120	4	232	139	93	259	97	66	29
	WITH 20 EMP. OR MORE....DO..	208	110	107	3	98	84	14	191	17	7	8
	ALL EMPLOYEES:											
	TOTAL.....DO..	43 160	34 039	(D)	(D)	9 121	(D)	(D)	42 058	1 102	(D)	542
	PAYROLL.....$1,000..	213 021	173 816	(D)	(D)	39 205	(D)	(D)	208 720	4 301	(D)	2 283
	VALUE ADDED, ADJUSTED.....DO..	627 040	549 688	(D)	(D)	77 352	(D)	(D)	618 261	8 779	(D)	4 683
	VALUE OF SHIPMENTS.....DO..	1 150 149	980 977	(D)	(D)	169 172	(D)	(D)	1 132 199	17 950	(D)	9 595
2061	RAW CANE SUGAR											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	74	39	39	-	35	20	15	59	15	1	6
	WITH 20 EMP. OR MORE....DO..	73	39	39	-	34	20	14	59	14	-	6
	ALL EMPLOYEES:											
	TOTAL.....DO..	8 263	6 007	6 007	-	2 256	1 303	953	7 310	953	(D)	(D)
	PAYROLL.....$1,000..	38 796	28 368	28 368	-	10 428	6 019	4 409	34 387	4 409	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	135 686	94 237	94 237	-	41 449	18 658	22 791	112 895	22 791	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	378 710	264 542	264 542	-	114 168	52 228	61 940	316 770	61 940	(D)	(D)
2062	CANE SUGAR REFINING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	25	22	22	-	3	3	-	25	-	-	-
	WITH 20 EMP. OR MORE....DO..	25	22	22	-	3	3	-	25	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	12 443	(D)	(D)	-	(D)	(D)	-	12 443	-	-	-
	PAYROLL.....$1,000..	90 792	(D)	(D)	-	(D)	(D)	-	90 792	-	-	-
	VALUE ADDED, ADJUSTED.....DO..	254 418	(D)	(D)	-	(D)	(D)	-	254 418	-	-	-
	VALUE OF SHIPMENTS.....DO..	1 271 229	(D)	(D)	-	(D)	(D)	-	1 271 229	-	-	-
2063	BEET SUGAR											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	65	63	63	-	2	2	-	65	-	-	-
	WITH 20 EMP. OR MORE....DO..	62	60	60	-	2	2	-	62	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 297	(D)	(D)	-	(D)	(D)	-	11 297	-	-	-
	PAYROLL.....$1,000..	59 641	(D)	(D)	-	(D)	(D)	-	59 641	-	-	-
	VALUE ADDED, ADJUSTED.....DO..	200 698	(D)	(D)	-	(D)	(D)	-	200 698	-	-	-
	VALUE OF SHIPMENTS.....DO..	564 073	(D)	(D)	-	(D)	(D)	-	564 073	-	-	-
2071	CONFECTIONERY PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 211	225	205	20	986	453	533	658	553	438	110
	WITH 20 EMP. OR MORE....DO..	411	172	166	6	239	212	27	378	33	11	20
	ALL EMPLOYEES:											
	TOTAL.....DO..	63 643	39 523	39 045	478	24 120	20 699	3 421	59 744	3 899	2 231	1 391
	PAYROLL.....$1,000..	269 680	171 484	170 025	1 459	98 196	87 261	10 935	257 286	12 394	6 757	4 527
	VALUE ADDED, ADJUSTED.....DO..	635 393	430 447	424 249	6 198	204 946	178 151	26 795	602 400	32 993	15 261	12 969
	VALUE OF SHIPMENTS.....DO..	1 454 512	974 625	963 736	10 889	479 887	417 414	62 473	1 381 150	73 362	35 322	30 106

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
20	FOOD AND KINDRED PRODUCTS--CONTINUED											
2072	CHOCOLATE AND COCOA PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	28	14	14	-	14	13	1	27	1	1	-
	WITH 20 EMP. OR MORE....DO..	23	12	12	-	11	11	-	23	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	8 743	7 161	7 161	-	1 582	(D)	(D)	(D)	(D)	(D)	-
	PAYROLL.....$1,000..	49 305	40 203	40 203	-	9 102	(D)	(D)	(D)	(D)	(D)	-
	VALUE ADDED, ADJUSTED.....DO..	184 796	163 021	163 021	-	21 775	(D)	(D)	(D)	(D)	(D)	-
	VALUE OF SHIPMENTS.....DO..	479 085	393 574	393 574	-	85 511	(D)	(D)	(D)	(D)	(D)	-
2073	CHEWING GUM											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	24	11	11	-	13	11	2	22	2	1	1
	WITH 20 EMP. OR MORE....DO..	17	11	11	-	6	5	1	16	1	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	5 558	4 924	4 924	-	634	(D)	(D)	(D)	(D)	(D)	(D)
	PAYROLL.....$1,000..	30 997	28 372	28 372	-	2 625	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	135 848	129 701	129 701	-	6 147	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	224 844	211 620	211 620	-	13 224	(D)	(D)	(D)	(D)	(D)	(D)
2082	MALT LIQUORS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	222	102	102	-	120	103	17	205	17	14	3
	WITH 20 EMP. OR MORE....DO..	180	100	100	-	80	78	2	178	2	2	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	62 643	52 949	52 949	-	9 694	9 574	120	62 523	120	(D)	(D)
	PAYROLL.....$1,000..	470 823	407 113	407 113	-	63 710	63 181	529	470 294	529	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	1 286 036	1 125 701	1 125 701	-	160 335	159 089	1 246	1 284 790	1 246	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	2 315 068	2 022 769	2 022 769	-	292 299	290 210	2 089	2 312 979	2 089	(D)	(D)
2083	MALT											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	42	30	29	1	12	10	2	39	3	1	2
	WITH 20 EMP. OR MORE....DO..	31	24	23	1	7	7	-	30	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	1 925	1 544	(D)	(D)	381	(D)	(D)	(D)	(D)	(D)	(D)
	PAYROLL.....$1,000..	15 084	12 145	(D)	(D)	2 939	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	43 979	35 815	(D)	(D)	8 164	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	183 515	147 593	(D)	(D)	35 922	(D)	(D)	(D)	(D)	(D)	(D)
2084	WINES AND BRANDY											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	222	52	37	15	170	92	78	129	93	41	25
	WITH 20 EMP. OR MORE....DO..	70	31	27	4	39	33	6	60	10	1	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	6 111	3 650	3 272	378	2 461	1 942	519	5 214	897	202	150
	PAYROLL.....$1,000..	35 051	21 200	19 056	2 144	13 851	11 377	2 474	30 433	4 618	843	767
	VALUE ADDED, ADJUSTED.....DO..	137 281	94 131	84 964	9 167	43 150	31 662	11 488	116 626	20 655	3 186	3 825
	VALUE OF SHIPMENTS[4].....DO..	368 281	254 685	232 807	21 878	113 596	85 831	27 765	318 638	49 643	7 340	6 806
2085	DISTILLED LIQUOR EXCEPT BRANDY											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	107	60	60	-	47	41	6	101	6	4	2
	WITH 20 EMP. OR MORE....DO..	89	56	56	-	33	33	-	89	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	18 009	16 130	16 130	-	1 879	1 845	34	17 975	34	(D)	(D)
	PAYROLL.....$1,000..	110 217	99 468	99 468	-	10 749	10 572	177	110 040	177	(D)	(D)
	VALUE ADDED, ADJUSTED[5].....DO..	623 736	592 661	592 661	-	31 075	30 367	708	623 028	708	(D)	(D)
	VALUE OF SHIPMENTS[5].....DO..	1 090 462	998 465	998 465	-	91 997	89 884	2 113	1 088 349	2 113	(D)	(D)
2086	BOTTLED AND CANNED SOFT DRINKS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	3 905	567	542	25	3 338	2 025	1 313	2 567	1 338	891	418
	WITH 20 EMP. OR MORE....DO..	1 530	434	422	12	1 096	956	140	1 378	152	58	86
	ALL EMPLOYEES:											
	TOTAL.....DO..	106 850	39 450	38 647	803	67 400	54 935	12 465	93 582	13 268	6 798	5 921
	PAYROLL.....$1,000..	537 743	224 061	219 945	4 116	313 682	264 774	48 908	484 719	53 024	26 702	23 829
	VALUE ADDED, ADJUSTED.....DO..	1 233 629	519 565	511 283	8 282	714 064	595 704	118 360	1 106 987	126 642	63 286	58 424
	VALUE OF SHIPMENTS.....DO..	2 210 920	937 458	921 884	15 574	1 273 462	1 056 545	216 917	1 978 429	232 491	117 615	105 479
2087	FLAVORINGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	520	93	91	2	427	287	140	378	142	105	35
	WITH 20 EMP. OR MORE....DO..	97	51	51	-	46	44	2	95	2	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	9 083	5 488	(D)	(D)	3 595	(D)	(D)	8 559	524	255	(D)
	PAYROLL.....$1,000..	56 576	35 020	(D)	(D)	21 556	(D)	(D)	54 247	2 329	1 155	(D)
	VALUE ADDED, ADJUSTED.....DO..	400 173	343 669	(D)	(D)	56 504	(D)	(D)	391 730	8 443	5 354	(D)
	VALUE OF SHIPMENTS.....DO..	729 704	604 238	(D)	(D)	125 466	(D)	(D)	709 506	20 198	11 151	(D)
2091	COTTONSEED OIL MILLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	188	104	101	3	84	52	32	153	35	10	5
	WITH 20 EMP. OR MORE....DO..	153	97	94	3	56	40	16	134	19	2	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	8 372	5 303	5 192	111	3 069	1 799	1 270	6 991	1 381	96	27
	PAYROLL.....$1,000..	38 173	24 177	23 595	582	13 996	7 900	6 096	31 495	6 678	398	110
	VALUE ADDED, ADJUSTED.....DO..	100 815	61 478	60 635	843	39 337	17 029	22 308	77 664	23 151	1 051	98
	VALUE OF SHIPMENTS.....DO..	555 188	364 459	358 093	6 366	190 729	90 116	100 613	448 209	106 979	5 460	906
2092	SOYBEAN OIL MILLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	102	68	59	9	34	14	20	73	29	13	5
	WITH 20 EMP. OR MORE....DO..	71	61	53	8	10	5	5	58	13	-	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	6 478	5 900	5 169	731	578	288	290	5 457	1 021	(D)	(D)
	PAYROLL.....$1,000..	39 893	36 199	32 519	3 680	3 694	1 905	1 789	34 424	5 469	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	152 143	136 763	122 273	14 490	15 380	6 522	8 858	128 795	23 348	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	1 473 385	1 333 056	1 191 157	141 899	140 329	73 945	66 384	1 265 102	208 283	(D)	(D)

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies				Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership	Corporate	Total[2]	Individual	Partnership
20	FOOD AND KINDRED PRODUCTS--CONTINUED											
2093	VEGETABLE OIL MILLS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	47	22	19	3	25	21	4	40	7	3	2
	WITH 20 EMP. OR MORE....DO..	22	18	16	2	4	3	1	19	3	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	1 952	1 543	(D)	(D)	409	(D)	(D)	(D)	(D)	(D)	(D)
	PAYROLL.....$1,000..	11 501	9 972	(D)	(D)	1 529	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	42 692	38 374	(D)	(D)	4 318	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	234 168	215 500	(D)	(D)	18 668	(D)	(D)	(D)	(D)	(D)	(D)
2094	ANIMAL & MARINE FATS & OILS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	615	171	149	22	444	281	163	430	185	107	60
	WITH 20 EMP. OR MORE....DO..	211	101	93	8	110	103	7	196	15	6	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	14 276	7 212	6 829	383	7 064	5 932	1 132	12 761	1 515	697	568
	PAYROLL.....$1,000..	78 305	39 870	37 978	1 892	38 435	32 701	5 734	70 679	7 626	3 479	2 949
	VALUE ADDED, ADJUSTED.....DO..	193 326	99 321	93 789	5 532	94 005	74 416	19 589	168 205	25 121	13 642	8 991
	VALUE OF SHIPMENTS.....DO..	473 993	226 665	217 219	9 446	247 328	199 510	47 818	416 729	57 264	34 744	17 243
2095	ROASTED COFFEE											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	324	121	120	1	203	138	65	258	66	43	19
	WITH 20 EMP. OR MORE....DO..	133	85	85	-	48	43	5	128	5	4	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	17 175	13 670	(D)	(D)	3 505	(D)	(D)	16 614	561	402	117
	PAYROLL.....$1,000..	111 429	90 311	(D)	(D)	21 118	(D)	(D)	109 031	2 398	1 716	488
	VALUE ADDED, ADJUSTED.....DO..	616 407	561 001	(D)	(D)	55 406	(D)	(D)	610 017	6 390	4 391	1 518
	VALUE OF SHIPMENTS.....DO..	1 868 058	1 687 705	(D)	(D)	180 353	(D)	(D)	1 849 275	18 783	12 876	4 096
2096	SHORTENING AND COOKING OILS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	115	72	72	-	43	33	10	105	10	4	4
	WITH 20 EMP. OR MORE....DO..	86	66	66	-	20	16	4	82	4	1	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	13 511	11 884	11 884	-	1 627	1 399	228	13 283	228	(D)	(D)
	PAYROLL.....$1,000..	88 606	79 331	79 331	-	9 275	8 103	1 172	87 434	1 172	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	264 501	241 926	241 926	-	22 575	19 465	3 110	261 391	3 110	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	1 324 357	1 199 284	1 199 284	-	125 073	112 481	12 592	1 311 765	12 592	(D)	(D)
2097	MANUFACTURED ICE											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 199	451	399	52	748	318	430	717	482	331	143
	WITH 20 EMP. OR MORE....DO..	135	90	83	7	45	39	6	122	13	3	10
	ALL EMPLOYEES:											
	TOTAL.....DO..	10 757	5 656	5 263	393	5 101	3 229	1 872	8 492	2 265	1 293	935
	PAYROLL.....$1,000..	42 872	23 937	22 544	1 393	18 935	13 074	5 861	35 618	7 254	3 746	3 343
	VALUE ADDED, ADJUSTED.....DO..	90 244	54 810	52 071	2 739	35 434	22 797	12 637	74 868	15 376	7 766	7 251
	VALUE OF SHIPMENTS.....DO..	122 550	70 262	66 328	3 934	52 328	33 236	19 092	99 564	23 026	12 041	10 522
2098	MACARONI AND SPAGHETTI											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	221	34	31	3	187	90	97	121	100	65	35
	WITH 20 EMP. OR MORE....DO..	70	29	28	1	41	34	7	62	8	1	7
	ALL EMPLOYEES:											
	TOTAL.....DO..	7 270	3 550	(D)	(D)	3 720	(D)	(D)	6 488	782	361	421
	PAYROLL.....$1,000..	35 495	18 079	(D)	(D)	17 416	(D)	(D)	32 851	2 644	910	1 734
	VALUE ADDED, ADJUSTED.....DO..	96 012	53 064	(D)	(D)	42 948	(D)	(D)	89 208	6 804	2 366	4 438
	VALUE OF SHIPMENTS.....DO..	222 947	123 845	(D)	(D)	99 102	(D)	(D)	207 801	15 146	5 251	9 895
2099	FOOD PREPARATIONS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	2 190	394	373	21	1 796	778	1 018	1 151	1 039	816	210
	WITH 20 EMP. OR MORE....DO..	547	261	253	8	286	249	37	502	45	20	20
	ALL EMPLOYEES:											
	TOTAL.....DO..	54 277	32 758	32 188	570	21 519	15 743	5 776	47 931	6 346	4 090	2 031
	PAYROLL.....$1,000..	271 283	178 087	175 441	2 646	93 196	75 161	18 035	250 602	20 681	11 798	7 878
	VALUE ADDED, ADJUSTED.....DO..	849 610	629 908	619 221	10 687	219 702	170 046	49 656	789 267	60 343	33 342	18 958
	VALUE OF SHIPMENTS.....DO..	1 797 284	1 289 496	1 271 278	18 218	507 788	391 822	115 966	1 663 100	134 184	74 169	47 774
21	TOBACCO MANUFACTURES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	394	184	179	5	210	90	120	269	125	101	21
	WITH 20 EMP. OR MORE..DO..	231	169	165	4	62	51	11	216	15	7	6
	ALL EMPLOYEES:											
	TOTAL.....DO..	77 330	71 382	71 061	321	5 948	5 084	864	76 145	1 185	654	(D)
	PAYROLL.....$1,000..	330 498	312 004	311 072	932	18 494	16 515	1 979	327 587	2 911	1 419	(D)
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	68 579	63 310	63 006	304	5 269	4 511	758	67 517	1 062	582	(D)
	MAN-HOURS.....1,000..	132 035	122 606	122 001	605	9 429	8 146	1 283	130 147	1 888	949	(D)
	WAGES.....$1,000..	271 496	257 592	256 742	850	13 904	12 273	1 631	269 015	2 481	1 232	(D)
	VALUE ADDED, ADJUSTED...DO..	1 680 594	1 641 415	1 638 942	2 473	39 179	35 112	4 067	1 674 054	6 540	2 949	(D)
	CAPITAL EXPEND., NEW[3]...DO..	53 843	52 267	52 233	34	1 576	1 498	78	53 731	112	88	(D)
2111	CIGARETTES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	14	14	14	-	-	-	-	14	-	-	-
	WITH 20 EMP. OR MORE....DO..	14	14	14	-	-	-	-	14	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	35 568	35 568	35 568	-	-	-	-	35 568	-	-	-
	PAYROLL.....$1,000..	183 046	183 046	183 046	-	-	-	-	183 046	-	-	-
	VALUE ADDED, ADJUSTED[5]....DO..	1 310 325	1 310 325	1 310 325	-	-	-	-	1 310 325	-	-	-
	VALUE OF SHIPMENTS[5].....DO..	2 655 346	2 655 346	2 655 346	-	-	-	-	2 655 346	-	-	-

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
21	TOBACCO MANUFACTURES-CONTINUED											
2121	CIGARS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	193	50	45	5	143	42	101	87	106	89	16
	WITH 20 EMP. OR MORE....DO..	82	49	45	4	33	24	9	69	13	5	6
	ALL EMPLOYEES:											
	TOTAL.....DO..	20 731	17 872	17 551	321	2 859	2 105	754	19 656	1 075	602	(D)
	PAYROLL.....$1,000..	68 108	59 707	58 775	932	8 401	6 751	1 650	65 526	2 582	1 256	(D)
	VALUE ADDED, ADJUSTED[5]....DO..	192 998	177 118	174 645	2 473	15 880	12 649	3 231	187 294	5 704	2 557	(D)
	VALUE OF SHIPMENTS[5].....DO..	358 463	323 854	319 061	4 793	34 609	28 455	6 154	347 516	10 947	4 683	(D)
2131	CHEWING AND SMOKING TOBACCO											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	51	16	16	-	35	23	12	39	12	8	3
	WITH 20 EMP. OR MORE....DO..	25	16	16	-	9	8	1	24	1	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	4 058	3 143	3 143	-	915	858	57	4 001	57	(D)	(D)
	PAYROLL.....$1,000..	18 207	14 541	14 541	-	3 666	3 499	167	18 040	167	(D)	(D)
	VALUE ADDED, ADJUSTED[5]....DO..	73 975	64 692	64 692	-	9 283	8 935	348	73 627	348	(D)	(D)
	VALUE OF SHIPMENTS[5].....DO..	139 543	118 445	118 445	-	21 098	20 380	718	138 825	718	(D)	(D)
2141	TOBACCO STEMMING AND REDRYING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	136	104	104	-	32	25	7	129	7	4	2
	WITH 20 EMP. OR MORE....DO..	110	90	90	-	20	19	1	109	1	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	16 973	14 799	14 799	-	2 174	2 121	53	16 920	53	(D)	(D)
	PAYROLL.....$1,000..	61 137	54 710	54 710	-	6 427	6 265	162	60 975	162	(D)	(D)
	VALUE ADDED, ADJUSTED[5]....DO..	103 296	89 280	89 280	-	14 016	13 528	488	102 808	488	(D)	(D)
	VALUE OF SHIPMENTS[5].....DO..	1 366 602	1 326 523	1 326 523	-	40 079	39 042	1 037	1 365 565	1 037	(D)	(D)
22	TEXTILE MILL PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	7 104	1 825	1 794	31	5 279	3 808	1 471	5 602	1 502	1 060	398
	WITH 20 EMP. OR MORE..DO..	4 368	1 676	1 658	18	2 692	2 416	276	4 074	294	100	167
	ALL EMPLOYEES:											
	TOTAL.....DO..	863 246	602 142	596 779	5 363	261 104	238 619	22 485	835 398	27 848	10 647	11 362
	PAYROLL.....$1,000..	3 385 031	2 382 411	2 363 204	19 207	1 002 620	926 455	76 165	3 289 659	95 372	34 625	40 293
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	775 330	541 137	536 257	4 880	234 193	213 692	20 501	749 949	25 381	9 605	10 315
	MAN-HOURS.....1,000..	1 568 126	1 110 543	1 100 724	9 819	457 583	418 724	38 859	1 519 448	48 678	18 261	19 786
	WAGES.....$1,000..	2 768 414	1 963 405	1 946 880	16 525	805 009	739 450	65 559	2 686 330	82 084	29 282	34 780
	VALUE ADDED, ADJUSTED....DO..	6 122 982	4 380 330	4 341 832	38 498	1 742 652	1 602 051	140 601	5 943 883	179 099	64 420	77 240
	CAPITAL EXPEND., NEW[3]...DO..	382 414	294 968	293 560	1 408	87 446	79 532	7 914	373 092	9 322	5 310	2 701
2211	WEAVING MILLS, COTTON											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	407	272	265	7	135	106	29	371	36	25	6
	WITH 20 EMP. OR MORE....DO..	350	260	256	4	90	86	4	342	8	2	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	208 993	187 942	184 567	3 375	21 051	19 919	1 132	204 486	4 507	179	269
	PAYROLL.....$1,000..	771 573	697 769	685 722	12 047	73 804	70 727	3 077	756 449	15 124	663	853
	VALUE ADDED, ADJUSTED....DO..	1 256 753	1 140 832	1 117 286	23 546	115 921	110 549	5 372	1 227 835	28 918	1 349	1 815
	VALUE OF SHIPMENTS.....DO..	3 104 053	2 825 339	2 772 283	53 056	278 714	267 500	11 214	3 039 783	64 270	2 645	3 449
2221	WEAVING MILLS, SYNTHETICS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	355	172	170	2	183	148	35	320	35	19	16
	WITH 20 EMP. OR MORE....DO..	300	169	167	2	131	119	12	288	12	2	10
	ALL EMPLOYEES:											
	TOTAL.....DO..	88 157	73 183	73 183	(D)	14 974	(D)	(D)	87 479	678	(D)	504
	PAYROLL.....$1,000..	366 045	303 659	303 659	(D)	62 386	(D)	(D)	363 324	2 721	(D)	1 933
	VALUE ADDED, ADJUSTED.....DO..	661 535	555 977	55 977	(D)	105 558	(D)	(D)	656 736	4 799	(D)	3 375
	VALUE OF SHIPMENTS.....DO..	1 722 356	1 453 684	1 455 130	(D)	268 672	(D)	(D)	1 712 855	10 947	(D)	6 956
2231	WEAVING, FINISHING MILLS, WOOL											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	361	112	110	2	249	188	61	298	63	44	15
	WITH 20 EMP. OR MORE....DO..	249	101	100	1	148	133	15	233	16	2	10
	ALL EMPLOYEES:											
	TOTAL.....DO..	47 429	31 870	(D)	(D)	15 559	(D)	(D)	45 486	1 943	254	1 447
	PAYROLL.....$1,000..	202 892	136 374	(D)	(D)	66 518	(D)	(D)	194 805	8 087	929	6 304
	VALUE ADDED, ADJUSTED.....DO..	386 322	276 936	(D)	(D)	109 386	(D)	(D)	371 467	14 855	1 893	11 618
	VALUE OF SHIPMENTS.....DO..	1 010 692	787 555	(D)	(D)	223 137	(D)	(D)	982 581	28 111	3 802	21 724
2241	NARROW FABRIC MILLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	384	90	88	2	294	220	74	308	76	53	21
	WITH 20 EMP. OR MORE....DO..	215	79	77	2	136	129	7	206	9	2	7
	ALL EMPLOYEES:											
	TOTAL.....DO..	23 154	12 146	(D)	(D)	11 008	(D)	(D)	22 373	781	(D)	397
	PAYROLL.....$1,000..	91 869	46 977	(D)	(D)	44 892	(D)	(D)	89 024	2 845	(D)	1 349
	VALUE ADDED, ADJUSTED.....DO..	172 493	90 836	(D)	(D)	81 657	(D)	(D)	167 057	5 436	(D)	2 743
	VALUE OF SHIPMENTS.....DO..	349 071	192 314	(D)	(D)	156 757	(D)	(D)	338 024	11 047	(D)	6 290
2251	WOMEN'S HOSIERY, EXCEPT SOCKS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	411	95	93	2	316	208	108	301	110	71	34
	WITH 20 EMP. OR MORE....DO..	268	92	91	1	176	148	28	239	29	9	17
	ALL EMPLOYEES:											
	TOTAL.....DO..	51 527	36 046	(D)	(D)	15 481	(D)	(D)	49 262	2 265	727	1 290
	PAYROLL.....$1,000..	170 875	121 892	(D)	(D)	48 983	(D)	(D)	164 311	6 564	2 023	3 739
	VALUE ADDED, ADJUSTED.....DO..	296 346	215 857	(D)	(D)	80 489	(D)	(D)	285 113	11 233	3 312	6 651
	VALUE OF SHIPMENTS.....DO..	606 560	437 358	(D)	(D)	169 202	(D)	(D)	581 294	25 266	6 146	16 832

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
22	TEXTILE MILL PRODUCTS--CONTINUED											
2252	HOSIERY, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	528	68	68	-	460	272	188	340	188	143	42
	WITH 20 EMP. OR MORE....DO..	338	67	67	-	271	225	46	292	46	26	19
	ALL EMPLOYEES:											
	TOTAL.....DO..	43 340	16 394	16 394	-	26 946	23 223	3 723	39 617	3 723	2 329	1 334
	PAYROLL.....$1,000..	124 114	49 593	49 593	-	74 521	65 490	9 031	115 083	9 031	5 570	3 272
	VALUE ADDED, ADJUSTED.....DO..	192 165	78 434	78 434	-	113 731	97 639	16 092	176 073	16 092	10 152	5 798
	VALUE OF SHIPMENTS.....DO..	451 098	196 059	196 059	-	255 039	220 127	34 912	416 186	34 912	20 876	13 345
2253	KNIT OUTERWEAR MILLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 185	74	69	5	1 111	796	315	865	320	208	106
	WITH 20 EMP. OR MORE....DO..	666	70	66	4	596	512	84	578	88	31	53
	ALL EMPLOYEES:											
	TOTAL.....DO..	68 570	19 224	18 568	656	49 346	44 285	5 061	62 853	5 717	2 221	3 077
	PAYROLL.....$1,000..	266 650	78 128	75 863	2 265	188 522	170 746	17 776	246 609	20 041	7 521	11 077
	VALUE ADDED, ADJUSTED.....DO..	463 585	135 409	130 972	4 437	328 176	296 670	31 506	427 642	35 943	11 941	21 219
	VALUE OF SHIPMENTS.....DO..	1 045 470	322 454	312 277	10 177	723 016	657 152	65 864	969 429	76 041	27 295	44 041
2254	KNIT UNDERWEAR MILLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	118	44	43	1	74	62	12	105	13	7	6
	WITH 20 EMP. OR MORE....DO..	104	42	42	-	62	57	5	99	5	1	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	28 364	19 756	(D)	(D)	8 608	(D)	(D)	27 967	397	115	282
	PAYROLL.....$1,000..	95 869	69 223	(D)	(D)	26 646	(D)	(D)	94 710	1 159	388	771
	VALUE ADDED, ADJUSTED.....DO..	170 709	128 986	(D)	(D)	41 723	(D)	(D)	168 116	2 593	1 292	1 301
	VALUE OF SHIPMENTS.....DO..	364 834	276 626	(D)	(D)	88 208	(D)	(D)	356 368	8 466	5 614	2 852
2256	KNIT FABRIC MILLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	518	90	89	1	428	351	77	440	78	56	21
	WITH 20 EMP. OR MORE....DO..	243	73	73	-	170	161	9	234	9	2	7
	ALL EMPLOYEES:											
	TOTAL.....DO..	25 046	11 786	(D)	(D)	(D)	(D)	(D)	24 285	761	481	(D)
	PAYROLL.....$1,000..	117 532	53 153	(D)	(D)	(D)	(D)	(D)	114 231	3 301	1 815	(D)
	VALUE ADDED, ADJUSTED.....DO..	252 908	122 016	(D)	(D)	(D)	(D)	(D)	246 639	6 269	3 242	(D)
	VALUE OF SHIPMENTS.....DO..	817 383	399 751	(D)	(D)	(D)	(D)	(D)	798 045	19 338	9 759	(D)
2259	KNITTING MILLS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	88	9	9	-	79	51	28	60	28	26	2
	WITH 20 EMP. OR MORE....DO..	45	9	9	-	36	35	1	44	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	3 639	1 486	1 486	-	2 153	1 977	176	3 463	176	(D)	(D)
	PAYROLL.....$1,000..	12 458	4 846	4 846	-	7 612	7 050	562	11 896	562	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	20 309	6 466	6 466	-	13 843	12 679	1 164	19 145	1 164	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	40 731	12 024	12 024	-	28 707	26 813	1 894	38 837	1 894	(D)	(D)
2261	FINISHING PLANTS, COTTON											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	238	68	68	-	170	123	47	191	47	39	5
	WITH 20 EMP. OR MORE....DO..	140	65	65	-	75	72	3	137	3	2	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	42 055	34 819	34 819	-	7 236	6 810	426	41 629	426	255	40
	PAYROLL.....$1,000..	190 532	153 986	153 986	-	36 546	35 006	1 540	188 992	1 540	935	172
	VALUE ADDED, ADJUSTED.....DO..	332 290	272 143	272 143	-	60 147	57 161	2 986	329 304	2 986	1 719	523
	VALUE OF SHIPMENTS.....DO..	869 746	748 531	748 531	-	121 215	112 719	8 496	861 250	8 496	6 622	956
2262	FINISHING PLANTS, SYNTHETIC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	205	39	39	-	166	145	21	184	21	15	4
	WITH 20 EMP. OR MORE....DO..	138	34	34	-	104	100	4	134	4	-	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	19 528	10 089	10 089	-	9 439	9 038	401	19 127	401	74	169
	PAYROLL.....$1,000..	105 975	50 900	50 900	-	55 075	52 782	2 293	103 682	2 293	358	972
	VALUE ADDED, ADJUSTED.....DO..	176 819	91 019	91 019	-	85 800	82 068	3 732	173 087	3 732	606	1 532
	VALUE OF SHIPMENTS.....DO..	323 701	188 012	188 012	-	135 689	129 455	6 234	317 467	6 234	1 960	2 141
2269	FINISHING PLANTS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	178	39	38	1	139	103	36	141	37	23	13
	WITH 20 EMP. OR MORE....DO..	85	31	31	-	54	48	6	79	6	1	5
	ALL EMPLOYEES:											
	TOTAL.....DO..	9 236	4 904	(D)	(D)	4 332	(D)	(D)	8 674	562	225	(D)
	PAYROLL.....$1,000..	40 399	21 269	(D)	(D)	19 130	(D)	(D)	38 087	2 312	915	(D)
	VALUE ADDED, ADJUSTED.....DO..	73 159	39 219	(D)	(D)	33 940	(D)	(D)	68 035	5 124	1 517	(D)
	VALUE OF SHIPMENTS.....DO..	206 920	119 626	(D)	(D)	87 294	(D)	(D)	194 269	12 651	6 238	(D)
2271	WOVEN CARPETS AND RUGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	64	25	25	-	39	21	18	46	18	11	7
	WITH 20 EMP. OR MORE....DO..	31	24	24	-	7	6	1	30	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	13 357	12 943	12 943	-	414	322	92	13 265	92	38	54
	PAYROLL.....$1,000..	63 018	61 374	61 374	-	1 644	1 354	290	62 728	290	124	166
	VALUE ADDED, ADJUSTED.....DO..	120 004	116 057	116 057	-	3 947	3 486	461	119 543	461	231	230
	VALUE OF SHIPMENTS[4].....DO..	312 473	302 800	302 800	-	9 673	8 615	1 058	311 415	1 058	511	547
2272	TUFTED CARPETS AND RUGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	181	49	49	-	132	98	34	147	34	21	12
	WITH 20 EMP. OR MORE....DO..	121	46	46	-	75	67	8	113	8	1	6
	ALL EMPLOYEES:											
	TOTAL.....DO..	19 854	13 176	13 176	-	6 678	6 025	653	19 201	653	152	(D)
	PAYROLL.....$1,000..	80 470	55 209	55 209	-	25 261	22 938	2 323	78 147	2 323	469	(D)
	VALUE ADDED, ADJUSTED.....DO..	259 343	186 374	186 374	-	72 969	66 680	6 289	253 054	6 289	1 885	(D)
	VALUE OF SHIPMENTS.....DO..	801 804	567 113	567 113	-	234 691	215 706	18 985	782 819	18 985	5 823	(D)

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]					Legal form of organization[1]			
			Multiunit companies			Single unit companies			Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership	Corporate	Total[2]	Individual	Partnership
22	TEXTILE MILL PRODUCTS--CONTINUED											
2279	CARPETS AND RUGS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	104	6	6	-	98	40	58	46	58	48	8
	WITH 20 EMP. OR MORE....DO..	35	5	5	-	30	23	7	28	7	4	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	2 445	303	303	-	2 142	1 659	483	1 962	483	318	(D)
	PAYROLL.....$1,000..	8 878	1 286	1 286	-	7 592	6 086	1 506	7 372	1 506	970	(D)
	VALUE ADDED, ADJUSTED.....DO..	15 595	2 237	2 237	-	13 358	10 697	2 661	12 934	2 661	1 629	(D)
	VALUE OF SHIPMENTS.....DO..	29 585	4 233	4 233	-	25 352	19 885	5 467	24 118	5 467	3 356	(D)
2281	YARN MILLS, EXCEPT WOOL											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	317	167	166	1	150	132	18	298	19	15	4
	WITH 20 EMP. OR MORE....DO..	284	162	161	1	122	116	6	277	7	5	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	61 647	41 041	(D)	(D)	20 606	(D)	(D)	60 756	891	765	126
	PAYROLL.....$1,000..	208 091	140 195	(D)	(D)	67 896	(D)	(D)	205 238	2 853	2 425	428
	VALUE ADDED, ADJUSTED.....DO..	363 177	247 511	(D)	(D)	115 666	(D)	(D)	358 320	4 857	4 169	688
	VALUE OF SHIPMENTS.....DO..	1 067 043	739 761	(D)	(D)	327 282	(D)	(D)	1 051 294	15 749	13 969	1 780
2282	THROWING AND WINDING MILLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	180	47	46	1	133	90	43	136	44	28	14
	WITH 20 EMP. OR MORE....DO..	110	42	41	1	68	62	6	103	7	1	5
	ALL EMPLOYEES:											
	TOTAL.....DO..	13 559	8 239	(D)	(D)	5 320	(D)	(D)	13 003	556	218	(D)
	PAYROLL.....$1,000..	47 066	29 352	(D)	(D)	17 714	(D)	(D)	45 292	1 774	604	(D)
	VALUE ADDED, ADJUSTED.....DO..	93 649	61 182	(D)	(D)	32 467	(D)	(D)	90 954	2 695	989	(D)
	VALUE OF SHIPMENTS.....DO..	319 252	235 951	(D)	(D)	83 301	(D)	(D)	314 185	5 067	2 605	(D)
2283	WOOL YARN MILLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	144	51	50	1	93	76	17	126	18	11	5
	WITH 20 EMP. OR MORE....DO..	121	46	45	1	75	67	8	112	9	4	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	17 385	10 863	(D)	(D)	6 522	(D)	(D)	16 734	651	388	(D)
	PAYROLL.....$1,000..	66 526	41 783	(D)	(D)	24 743	(D)	(D)	64 077	2 449	1 536	(D)
	VALUE ADDED, ADJUSTED.....DO..	119 718	76 628	(D)	(D)	43 090	(D)	(D)	115 188	4 530	3 210	(D)
	VALUE OF SHIPMENTS.....DO..	422 189	294 159	(D)	(D)	128 030	(D)	(D)	409 546	12 643	9 760	(D)
2284	THREAD MILLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	71	30	28	2	41	32	9	60	11	8	3
	WITH 20 EMP. OR MORE....DO..	36	24	23	1	12	12	-	35	1	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	10 056	9 008	(D)	(D)	1 048	(D)	(D)	9 901	155	133	22
	PAYROLL.....$1,000..	37 438	33 129	(D)	(D)	4 309	(D)	(D)	36 944	494	420	74
	VALUE ADDED, ADJUSTED.....DO..	75 821	68 788	(D)	(D)	7 033	(D)	(D)	74 105	1 716	1 452	264
	VALUE OF SHIPMENTS.....DO..	194 068	175 512	(D)	(D)	18 556	(D)	(D)	190 788	3 280	2 633	647
2291	FELT GOODS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	36	22	22	-	14	12	2	34	2	1	1
	WITH 20 EMP. OR MORE....DO..	30	22	22	-	8	8	-	30	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	4 952	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	PAYROLL.....$1,000..	27 011	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	58 625	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	133 998	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2292	LACE GOODS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	152	23	23	-	129	85	44	108	44	35	8
	WITH 20 EMP. OR MORE....DO..	51	17	17	-	34	33	1	50	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	4 912	2 657	2 657	-	2 255	2 045	210	4 702	210	134	(D)
	PAYROLL.....$1,000..	19 749	10 592	10 592	-	9 157	8 471	686	19 063	686	447	(D)
	VALUE ADDED, ADJUSTED.....DO..	31 472	18 490	18 490	-	12 982	11 764	1 218	30 254	1 218	817	(D)
	VALUE OF SHIPMENTS.....DO..	53 046	29 602	29 602	-	23 444	21 456	1 988	51 058	1 988	1 367	(D)
2293	PADDING AND UPHOLSTERY FILLING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	183	46	44	2	137	99	38	143	40	28	12
	WITH 20 EMP. OR MORE....DO..	73	33	32	1	40	37	3	69	4	1	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	6 932	4 290	(D)	(D)	2 642	(D)	(D)	6 565	367	211	156
	PAYROLL.....$1,000..	33 651	20 476	(D)	(D)	13 175	(D)	(D)	31 907	1 744	963	781
	VALUE ADDED, ADJUSTED.....DO..	66 017	40 779	(D)	(D)	25 238	(D)	(D)	61 959	4 058	2 061	1 997
	VALUE OF SHIPMENTS.....DO..	156 968	94 154	(D)	(D)	62 814	(D)	(D)	146 670	10 298	5 305	4 993
2294	PROCESSED TEXTILE WASTE											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	141	20	20	-	121	86	35	106	35	27	8
	WITH 20 EMP. OR MORE....DO..	59	15	15	-	44	42	2	57	2	1	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	4 240	1 098	1 098	-	3 142	2 852	290	3 950	290	216	74
	PAYROLL.....$1,000..	17 845	4 405	4 405	-	13 440	12 337	1 103	16 742	1 103	773	330
	VALUE ADDED, ADJUSTED.....DO..	30 961	8 061	8 061	-	22 900	20 268	2 632	28 329	2 632	1 770	862
	VALUE OF SHIPMENTS.....DO..	87 482	32 885	32 885	-	54 597	49 029	5 568	81 914	5 568	3 397	2 171
2295	COATED FABRIC, NOT RUBBERIZED											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	162	50	49	1	112	90	22	139	23	18	3
	WITH 20 EMP. OR MORE....DO..	87	43	43	-	44	43	1	86	1	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	13 705	10 911	(D)	(D)	2 794	(D)	(D)	13 510	195	109	(D)
	PAYROLL.....$1,000..	89 235	73 323	(D)	(D)	15 912	(D)	(D)	88 091	1 144	582	(D)
	VALUE ADDED, ADJUSTED.....DO..	179 307	150 532	(D)	(D)	28 775	(D)	(D)	176 902	2 405	1 310	(D)
	VALUE OF SHIPMENTS.....DO..	435 743	363 287	(D)	(D)	72 456	(D)	(D)	429 363	6 380	3 240	(D)

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]					Legal form of organization[1]			
			Multiunit companies			Single unit companies			Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership	Corporate	Total[2]	Individual	Partnership
22	TEXTILE MILL PRODUCTS--CONTINUED											
2296	TIRE CORD AND FABRIC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	20	19	19	-	1	-	1	19	1	1	-
	WITH 20 EMP. OR MORE....DO..	19	19	19	-	-	-	-	19	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	9 163	(D)	(D)	-	(D)	-	(D)	(D)	(D)	(D)	-
	PAYROLL.....$1,000..	35 139	(D)	(D)	-	(D)	-	(D)	(D)	(D)	(D)	-
	VALUE ADDED, ADJUSTED.....DO..	72 267	(D)	(D)	-	(D)	-	(D)	(D)	(D)	(D)	-
	VALUE OF SHIPMENTS.....DO..	375 689	(D)	(D)	-	(D)	-	(D)	(D)	(D)	(D)	-
2297	SCOURING AND COMBING PLANTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	69	14	14	-	55	41	14	55	14	12	2
	WITH 20 EMP. OR MORE....DO..	38	14	14	-	24	23	1	37	1	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	5 798	3 653	3 653	-	2 145	2 019	126	5 672	126	(D)	(D)
	PAYROLL.....$1,000..	24 749	16 121	16 121	-	8 628	8 051	577	24 172	577	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	45 402	29 947	29 947	-	15 455	14 459	996	44 406	996	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	119 918	89 779	89 779	-	30 139	28 597	1 542	118 376	1 542	(D)	(D)
2298	CORDAGE AND TWINE											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	167	44	43	1	123	73	50	116	51	40	9
	WITH 20 EMP. OR MORE....DO..	76	38	37	1	38	33	5	70	6	1	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	8 920	5 845	(D)	(D)	3 075	(D)	(D)	8 364	556	214	(D)
	PAYROLL.....$1,000..	34 524	23 298	(D)	(D)	11 226	(D)	(D)	32 760	1 764	686	(D)
	VALUE ADDED, ADJUSTED.....DO..	57 614	38 512	(D)	(D)	19 102	(D)	(D)	54 272	3 342	1 247	(D)
	VALUE OF SHIPMENTS.....DO..	149 331	104 752	(D)	(D)	44 579	(D)	(D)	142 385	6 946	2 782	(D)
2299	TEXTILE GOODS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	137	40	39	1	97	60	37	99	38	27	11
	WITH 20 EMP. OR MORE....DO..	56	34	34	-	22	19	3	53	3	-	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	7 283	5 531	(D)	(D)	1 752	(D)	(D)	7 000	283	111	172
	PAYROLL.....$1,000..	34 858	27 635	(D)	(D)	7 223	(D)	(D)	33 781	1 077	407	670
	VALUE ADDED, ADJUSTED.....DO..	78 746	63 885	(D)	(D)	14 861	(D)	(D)	76 672	2 074	923	1 151
	VALUE OF SHIPMENTS.....DO..	169 770	136 667	(D)	(D)	33 103	(D)	(D)	163 865	5 905	2 240	3 665
23	APPAREL AND RELATED PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	28 457	2 694	2 534	160	25 763	14 655	11 108	17 189	11 268	8 115	2 992
	WITH 20 EMP. OR MORE..DO..	13 011	2 375	2 256	119	10 636	8 345	2 291	10 601	2 410	1 164	1 175
	ALL EMPLOYEES:											
	TOTAL.....DO..	1 279 534	498 307	484 279	14 028	781 227	623 947	157 280	1 108 226	171 308	85 712	79 126
	PAYROLL.....$1,000..	4 423 033	1 703 939	1 659 849	44 090	2 719 094	2 231 511	487 583	3 891 360	531 673	253 918	254 896
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	1 132 859	442 406	429 799	12 607	690 453	546 153	144 300	975 952	156 907	78 470	72 701
	MAN-HOURS.....1,000..	2 052 569	817 605	794 252	23 353	1 234 964	981 690	253 274	1 775 942	276 627	137 259	128 976
	WAGES.....$1,000..	3 482 286	1 342 957	1 305 941	37 016	2 139 329	1 708 026	431 303	3 013 967	468 319	225 622	224 873
	VALUE ADDED, ADJUSTED...DO..	7 861 011	3 221 492	3 146 790	74 702	4 639 519	3 803 470	836 049	6 950 260	910 751	426 584	447 680
	CAPITAL EXPEND., NEW[3]...DO..	128 582	52 119	51 066	1 053	76 463	58 008	18 455	109 074	19 508	12 719	6 232
2311	MEN'S AND BOYS' SUITS AND COATS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 112	200	190	10	912	584	328	774	338	237	95
	WITH 20 EMP. OR MORE....DO..	635	180	173	7	455	373	82	546	89	41	44
	ALL EMPLOYEES:											
	TOTAL.....DO..	122 679	72 878	71 708	1 170	49 801	42 358	7 443	114 066	8 613	4 099	3 972
	PAYROLL.....$1,000..	494 240	299 064	294 758	4 306	195 176	168 548	26 628	463 306	30 934	13 649	15 210
	VALUE ADDED, ADJUSTED.....DO..	831 910	517 699	510 742	6 957	314 211	271 493	42 718	782 235	49 675	23 040	23 280
	VALUE OF SHIPMENTS.....DO..	1 526 019	919 998	906 948	13 050	606 021	533 762	72 259	1 440 710	85 309	39 226	41 230
2321	MEN'S DRESS SHIRTS & NIGHTWEAR											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	834	290	283	7	544	390	154	673	161	110	46
	WITH 20 EMP. OR MORE....DO..	566	256	252	4	310	263	47	515	51	27	21
	ALL EMPLOYEES:											
	TOTAL.....DO..	113 193	73 837	73 211	626	39 355	34 587	4 768	107 798	5 394	2 129	2 481
	PAYROLL.....$1,000..	327 610	213 593	211 543	2 050	114 017	99 927	14 090	311 470	16 140	5 911	7 994
	VALUE ADDED, ADJUSTED.....DO..	601 620	430 426	426 254	4 172	171 194	148 972	22 222	575 226	26 394	8 657	14 190
	VALUE OF SHIPMENTS.....DO..	1 299 209	913 962	904 230	9 732	385 247	337 731	47 516	1 241 961	57 248	16 850	33 437
2322	MEN'S AND BOYS' UNDERWEAR											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	80	36	36	-	44	33	11	69	11	9	2
	WITH 20 EMP. OR MORE....DO..	63	35	35	-	28	26	2	61	2	1	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	12 084	8 773	8 773	-	3 311	3 181	130	11 954	130	(D)	(D)
	PAYROLL.....$1,000..	32 566	23 262	23 262	-	9 304	8 888	416	32 150	416	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	63 186	49 199	49 199	-	13 987	13 466	521	62 665	521	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	134 949	99 986	99 986	-	34 963	33 640	1 323	133 626	1 323	(D)	(D)
2323	MEN'S AND BOYS' NECKWEAR											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	341	9	9	-	332	160	172	169	172	126	44
	WITH 20 EMP. OR MORE....DO..	117	8	8	-	109	83	26	91	26	9	15
	ALL EMPLOYEES:											
	TOTAL.....DO..	8 385	1 449	1 449	-	6 936	5 168	1 768	6 617	1 768	922	(D)
	PAYROLL.....$1,000..	30 875	6 371	6 371	-	24 504	19 255	5 249	25 626	5 249	2 560	(D)
	VALUE ADDED, ADJUSTED.....DO..	58 136	13 992	13 992	-	44 144	34 062	10 082	48 054	10 082	4 828	(D)
	VALUE OF SHIPMENTS.....DO..	121 313	29 516	29 516	-	91 797	71 127	20 670	100 643	20 670	9 780	(D)

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies				Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership	Corporate	Total[2]	Individual	Partnership
23	APPAREL AND RELATED PRODUCTS--CONTINUED											
2327	SEPARATE TROUSERS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	735	155	149	6	580	367	213	516	219	159	60
	WITH 20 EMP. OR MORE....DO..	423	145	141	4	278	233	45	374	49	21	28
	ALL EMPLOYEES:											
	TOTAL.....DO..	73 848	37 304	36 898	406	36 544	32 304	4 240	69 202	4 646	2 062	(D)
	PAYROLL.....$1,000..	224 371	110 775	109 578	1 197	113 596	100 683	12 913	210 261	14 110	6 293	(D)
	VALUE ADDED, ADJUSTED.....DO..	383 134	199 624	197 594	2 030	183 510	162 736	20 774	360 330	22 804	9 895	(D)
	VALUE OF SHIPMENTS.....DO..	824 224	387 366	383 811	3 555	436 858	395 393	41 465	779 204	45 020	17 555	(D)
2328	WORK CLOTHING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	439	214	202	12	225	152	73	354	85	38	41
	WITH 20 EMP. OR MORE....DO..	353	207	196	11	146	111	35	307	46	12	29
	ALL EMPLOYEES:											
	TOTAL.....DO..	62 477	44 612	42 976	1 636	17 865	15 190	2 675	58 166	4 311	809	2 567
	PAYROLL.....$1,000..	179 612	128 208	123 340	4 868	51 404	43 796	7 608	167 136	12 476	2 209	7 315
	VALUE ADDED, ADJUSTED.....DO..	330 653	246 785	237 855	8 930	83 868	67 703	16 165	305 558	25 095	5 516	14 926
	VALUE OF SHIPMENTS.....DO..	824 710	612 943	596 350	16 593	211 767	177 897	33 870	774 247	50 463	10 268	32 576
2329	MEN'S AND BOYS' CLOTHING, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	554	92	84	8	462	326	136	410	144	100	42
	WITH 20 EMP. OR MORE....DO..	365	73	67	6	292	243	49	310	55	26	27
	ALL EMPLOYEES:											
	TOTAL.....DO..	35 917	11 076	10 528	548	24 841	21 317	3 524	31 845	4 072	1 870	(D)
	PAYROLL.....$1,000..	115 722	35 801	34 327	1 474	79 921	69 266	10 655	103 593	12 129	5 319	(D)
	VALUE ADDED, ADJUSTED.....DO..	183 224	64 019	61 998	2 021	119 205	102 551	16 654	164 549	18 675	7 961	(D)
	VALUE OF SHIPMENTS.....DO..	397 551	145 147	141 538	3 609	252 404	214 918	37 486	356 456	41 095	14 655	(D)
2331	BLOUSES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 175	101	90	11	1 074	629	445	719	456	311	142
	WITH 20 EMP. OR MORE....DO..	718	93	84	8	625	428	197	513	205	110	94
	ALL EMPLOYEES:											
	TOTAL.....DO..	57 595	15 825	13 849	1 976	41 770	30 750	11 020	44 599	12 996	6 309	6 637
	PAYROLL.....$1,000..	177 929	48 046	42 412	5 634	129 883	101 249	28 634	143 661	34 268	15 863	18 288
	VALUE ADDED, ADJUSTED.....DO..	300 525	76 762	70 283	6 479	223 763	180 056	43 707	250 339	50 186	24 156	25 908
	VALUE OF SHIPMENTS.....DO..	610 185	141 260	134 556	6 704	468 925	406 841	62 084	541 397	68 788	34 116	34 524
2335	DRESSES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	4 752	321	289	32	4 431	2 728	1 703	3 017	1 735	1 227	471
	WITH 20 EMP. OR MORE....DO..	3 013	288	257	31	2 725	1 960	765	2 217	796	437	336
	ALL EMPLOYEES:											
	TOTAL.....DO..	200 003	39 562	37 071	2 491	160 441	119 480	40 961	156 551	43 452	23 834	18 238
	PAYROLL.....$1,000..	686 818	138 121	130 943	7 178	548 697	425 638	123 059	556 581	130 237	67 823	57 474
	VALUE ADDED, ADJUSTED.....DO..	1 180 883	258 326	245 697	12 629	922 557	738 136	184 421	983 833	197 050	98 980	90 735
	VALUE OF SHIPMENTS.....DO..	2 410 972	565 866	538 730	27 136	1 845 106	1 574 087	271 019	2 112 817	298 155	139 570	143 194
2337	WOMEN'S SUITS, COATS & SKIRTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	2 516	103	95	8	2 413	1 621	792	1 716	800	544	242
	WITH 20 EMP. OR MORE....DO..	1 380	86	80	6	1 294	1 046	248	1 126	254	126	121
	ALL EMPLOYEES:											
	TOTAL.....DO..	88 332	10 928	10 380	548	77 404	62 993	14 411	73 373	14 959	8 139	6 369
	PAYROLL.....$1,000..	361 001	49 121	46 812	2 309	311 880	261 423	50 457	308 235	52 766	26 813	23 874
	VALUE ADDED, ADJUSTED.....DO..	637 869	94 538	89 468	5 070	543 331	456 510	86 821	545 978	91 891	44 972	42 880
	VALUE OF SHIPMENTS.....DO..	1 522 725	239 458	224 639	14 819	1 283 267	1 124 054	159 213	1 348 693	174 032	79 094	85 655
2339	WOMEN'S OUTERWEAR, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 297	116	111	5	1 181	749	432	860	437	325	106
	WITH 20 EMP. OR MORE....DO..	709	102	101	1	607	486	121	587	122	67	52
	ALL EMPLOYEES:											
	TOTAL.....DO..	59 536	17 929	17 824	105	41 607	33 868	7 739	51 692	7 844	4 534	3 114
	PAYROLL.....$1,000..	200 246	66 499	66 142	357	133 747	112 494	21 253	178 636	21 610	12 212	8 795
	VALUE ADDED, ADJUSTED.....DO..	340 462	113 411	112 847	564	227 051	193 002	34 049	305 849	34 613	17 512	15 820
	VALUE OF SHIPMENTS.....DO..	785 958	283 882	283 199	683	502 076	440 272	61 804	723 471	62 487	30 569	29 866
2341	WOMEN'S & CHILDREN'S UNDERWEAR											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 069	178	169	9	891	595	296	764	305	192	107
	WITH 20 EMP. OR MORE....DO..	628	168	161	7	460	370	90	531	97	30	66
	ALL EMPLOYEES:											
	TOTAL.....DO..	76 723	36 499	35 976	523	40 224	33 715	6 509	69 691	7 032	2 176	4 711
	PAYROLL.....$1,000..	238 850	111 816	110 401	1 415	127 034	108 467	18 567	218 868	19 982	5 888	13 561
	VALUE ADDED, ADJUSTED.....DO..	430 771	218 783	216 041	2 742	211 988	176 447	35 541	392 488	38 283	11 444	25 524
	VALUE OF SHIPMENTS.....DO..	976 108	476 217	470 689	5 528	499 891	422 945	76 946	893 634	82 474	23 292	55 116
2342	CORSETS AND ALLIED GARMENTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	351	97	93	4	254	197	57	290	61	42	18
	WITH 20 EMP. OR MORE....DO..	234	92	88	4	142	136	6	224	10	1	9
	ALL EMPLOYEES:											
	TOTAL.....DO..	37 144	22 158	21 772	386	14 986	14 325	661	36 097	1 047	298	(D)
	PAYROLL.....$1,000..	139 907	82 640	81 199	1 441	57 267	55 276	1 991	136 475	3 432	839	(D)
	VALUE ADDED, ADJUSTED.....DO..	310 150	203 285	201 238	2 047	106 865	103 614	3 251	304 852	5 298	1 307	(D)
	VALUE OF SHIPMENTS.....DO..	593 912	378 609	374 503	4 106	215 303	209 583	5 720	584 086	9 826	2 236	(D)
2351	MILLINERY											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	711	5	5	-	706	416	290	421	290	223	62
	WITH 20 EMP. OR MORE....DO..	221	4	4	-	217	185	32	189	32	13	17
	ALL EMPLOYEES:											
	TOTAL.....DO..	14 183	858	858	-	13 325	10 857	2 468	11 715	2 468	1 420	895
	PAYROLL.....$1,000..	55 576	3 339	3 339	-	52 237	43 709	8 528	47 048	8 528	4 486	3 497
	VALUE ADDED, ADJUSTED.....DO..	93 168	4 718	4 718	-	88 450	71 891	16 559	76 609	16 559	9 140	6 650
	VALUE OF SHIPMENTS.....DO..	163 185	8 895	8 895	-	154 290	125 682	28 608	134 577	28 608	15 823	11 480

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
23	APPAREL AND RELATED PRODUCTS--CONTINUED											
2352	HATS AND CAPS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	436	42	39	3	394	206	188	245	191	140	51
	WITH 20 EMP. OR MORE....DO..	173	41	38	3	132	110	22	148	25	10	15
	ALL EMPLOYEES:											
	TOTAL.....DO..	16 608	7 840	7 636	204	8 768	7 040	1 728	14 676	1 932	(D)	939
	PAYROLL.....$1,000..	60 463	29 517	28 974	543	30 946	25 187	5 759	54 161	6 302	(D)	3 155
	VALUE ADDED, ADJUSTED.....DO..	91 606	42 610	41 978	632	48 996	38 106	10 890	80 084	11 522	(D)	6 189
	VALUE OF SHIPMENTS.....DO..	171 108	80 849	79 422	1 427	90 259	70 351	19 908	149 773	21 335	(D)	11 167
2361	CHILDREN'S DRESSES AND BLOUSES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	667	73	68	5	594	363	231	431	236	161	73
	WITH 20 EMP. OR MORE....DO..	412	59	57	2	353	263	90	320	92	47	44
	ALL EMPLOYEES:											
	TOTAL.....DO..	35 792	9 710	9 577	133	26 082	20 618	5 464	30 195	5 597	2 783	(D)
	PAYROLL.....$1,000..	115 061	32 841	32 544	297	82 220	67 194	15 026	99 738	15 323	7 118	(D)
	VALUE ADDED, ADJUSTED.....DO..	205 623	61 211	60 760	451	144 412	119 179	25 233	179 939	25 684	11 726	(D)
	VALUE OF SHIPMENTS.....DO..	443 343	129 192	128 507	685	314 151	265 328	48 823	393 835	49 508	19 639	(D)
2363	CHILDREN'S COATS AND SUITS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	285	38	37	1	247	146	101	183	102	68	30
	WITH 20 EMP. OR MORE....DO..	152	30	29	1	122	91	31	120	32	14	18
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 848	3 152	(D)	(D)	8 696	(D)	(D)	9 090	2 758	890	1 839
	PAYROLL.....$1,000..	42 986	11 546	(D)	(D)	31 440	(D)	(D)	33 245	9 741	2 697	6 913
	VALUE ADDED, ADJUSTED.....DO..	72 735	19 423	(D)	(D)	53 312	(D)	(D)	57 914	14 821	4 134	10 510
	VALUE OF SHIPMENTS.....DO..	162 929	39 414	(D)	(D)	123 515	(D)	(D)	137 037	25 892	7 935	17 423
2369	CHILDREN'S OUTERWEAR, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	624	62	56	6	562	356	206	412	212	147	65
	WITH 20 EMP. OR MORE....DO..	360	59	53	6	301	243	58	296	64	22	42
	ALL EMPLOYEES:											
	TOTAL.....DO..	34 244	11 265	10 725	540	22 979	18 403	4 576	29 128	5 116	1 797	3 319
	PAYROLL.....$1,000..	107 012	34 343	32 878	1 465	72 669	60 006	12 663	92 884	14 128	4 515	9 613
	VALUE ADDED, ADJUSTED.....DO..	188 344	60 798	58 426	2 372	127 546	102 664	24 882	161 090	27 254	8 819	18 435
	VALUE OF SHIPMENTS.....DO..	419 551	138 840	132 209	6 631	280 711	231 539	49 172	363 748	55 803	16 132	39 671
2371	FUR GOODS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 591	5	4	1	1 586	795	791	799	792	543	241
	WITH 20 EMP. OR MORE....DO..	94	2	2	-	92	78	14	80	14	4	9
	ALL EMPLOYEES:											
	TOTAL.....DO..	9 289	132	(D)	(D)	9 157	(D)	(D)	6 628	2 661	1 550	1 044
	PAYROLL.....$1,000..	55 961	720	(D)	(D)	55 241	(D)	(D)	42 096	13 865	7 190	6 160
	VALUE ADDED, ADJUSTED.....DO..	110 619	1 202	(D)	(D)	109 417	(D)	(D)	77 897	32 722	17 273	14 662
	VALUE OF SHIPMENTS.....DO..	334 414	2 536	(D)	(D)	331 878	(D)	(D)	236 853	97 561	47 134	47 760
2381	FABRIC DRESS AND WORK GLOVES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	197	51	51	-	146	80	66	131	66	49	15
	WITH 20 EMP. OR MORE....DO..	103	47	47	-	56	45	11	92	11	8	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	12 771	7 997	7 997	-	4 774	3 913	861	11 910	861	567	(D)
	PAYROLL.....$1,000..	36 673	22 889	22 889	-	13 784	11 268	2 516	34 157	2 516	1 591	(D)
	VALUE ADDED, ADJUSTED.....DO..	64 372	39 780	39 780	-	24 592	20 188	4 404	59 968	4 404	2 674	(D)
	VALUE OF SHIPMENTS.....DO..	149 503	91 618	91 618	-	57 885	45 581	12 304	137 199	12 304	7 419	(D)
2384	ROBES AND DRESSING GOWNS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	271	20	20	-	251	153	98	173	98	64	34
	WITH 20 EMP. OR MORE....DO..	144	16	16	-	128	93	35	109	35	16	19
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 889	2 893	2 893	-	8 996	7 051	1 945	9 944	1 945	862	1 083
	PAYROLL.....$1,000..	37 381	8 219	8 219	-	29 162	23 901	5 261	32 120	5 261	2 422	2 839
	VALUE ADDED, ADJUSTED.....DO..	68 717	15 526	15 526	-	53 191	44 058	9 133	59 584	9 133	4 335	4 798
	VALUE OF SHIPMENTS.....DO..	173 450	42 373	42 373	-	131 077	113 474	17 603	155 847	17 603	8 675	8 928
2385	WATERPROOF OUTERGARMENTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	341	33	32	1	308	219	89	251	90	69	19
	WITH 20 EMP. OR MORE....DO..	196	29	29	-	167	141	26	170	26	12	13
	ALL EMPLOYEES:											
	TOTAL.....DO..	16 148	5 103	(D)	(D)	11 045	(D)	(D)	14 520	1 628	1 002	(D)
	PAYROLL.....$1,000..	60 824	20 620	(D)	(D)	40 204	(D)	(D)	55 907	4 917	2 965	(D)
	VALUE ADDED, ADJUSTED.....DO..	111 342	39 878	(D)	(D)	71 464	(D)	(D)	103 717	7 625	4 946	(D)
	VALUE OF SHIPMENTS.....DO..	235 540	79 748	(D)	(D)	155 792	(D)	(D)	221 152	14 388	9 270	(D)
2386	LEATHER & SHEEPLINED CLOTHING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	114	3	3	-	111	71	40	74	40	33	6
	WITH 20 EMP. OR MORE....DO..	50	3	3	-	47	40	7	43	7	3	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	3 352	143	143	-	3 209	2 819	390	2 962	390	193	(D)
	PAYROLL.....$1,000..	12 817	382	382	-	12 435	11 025	1 410	11 407	1 410	674	(D)
	VALUE ADDED, ADJUSTED.....DO..	23 351	831	831	-	22 520	20 047	2 473	20 878	2 473	1 096	(D)
	VALUE OF SHIPMENTS.....DO..	56 380	1 505	1 505	-	54 875	49 798	5 077	51 303	5 077	2 133	(D)
2387	APPAREL BELTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	389	12	12	-	377	233	144	245	144	111	33
	WITH 20 EMP. OR MORE....DO..	141	11	11	-	130	115	15	126	15	5	10
	ALL EMPLOYEES:											
	TOTAL.....DO..	9 841	1 893	1 893	-	7 948	6 606	1 342	8 499	1 342	783	559
	PAYROLL.....$1,000..	35 590	8 322	8 322	-	27 268	23 241	4 027	31 563	4 027	2 399	1 628
	VALUE ADDED, ADJUSTED.....DO..	62 172	16 356	16 356	-	45 816	38 497	7 319	54 853	7 319	4 421	2 898
	VALUE OF SHIPMENTS.....DO..	108 600	30 349	30 349	-	78 251	65 666	12 585	96 015	12 585	7 528	5 057

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
23	APPAREL AND RELATED PRODUCTS--CONTINUED											
2389	APPAREL, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	270	25	25	-	245	134	111	159	111	89	21
	WITH 20 EMP. OR MORE....DO..	108	23	23	-	85	72	13	95	13	5	8
	ALL EMPLOYEES:											
	TOTAL.....DO..	7 225	2 295	2 295	-	4 930	4 028	902	6 323	902	536	(D)
	PAYROLL.....$1,000..	25 553	7 561	7 561	-	17 992	15 516	2 476	23 077	2 476	1 444	(D)
	VALUE ADDED, ADJUSTED....DO..	43 211	12 645	12 645	-	30 566	26 307	4 259	38 952	4 259	2 503	(D)
	VALUE OF SHIPMENTS.....DO..	98 173	32 820	32 820	-	65 353	57 127	8 226	89 947	8 226	4 716	(D)
2391	CURTAINS AND DRAPERIES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 121	66	62	4	1 055	363	692	425	696	558	132
	WITH 20 EMP. OR MORE....DO..	255	53	52	1	202	164	38	216	39	18	19
	ALL EMPLOYEES:											
	TOTAL.....DO..	21 955	7 542	7 466	76	14 413	10 208	4 205	17 674	4 281	2 576	1 592
	PAYROLL.....$1,000..	75 114	24 710	24 168	542	50 404	37 260	13 144	61 428	13 686	8 054	5 106
	VALUE ADDED, ADJUSTED....DO..	131 995	42 288	41 573	715	89 707	64 829	24 878	106 402	25 593	14 952	9 893
	VALUE OF SHIPMENTS.....DO..	312 987	112 256	111 087	1 169	200 731	158 436	42 295	269 523	43 464	25 451	16 822
2392	HOUSEFURNISHINGS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 239	114	107	7	1 125	592	533	699	540	398	129
	WITH 20 EMP. OR MORE....DO..	422	98	93	5	324	275	49	368	54	18	30
	ALL EMPLOYEES:											
	TOTAL.....DO..	39 690	16 275	15 215	1 060	23 415	18 630	4 785	33 845	5 845	2 312	2 842
	PAYROLL.....$1,000..	142 820	58 952	55 178	3 774	83 868	69 281	14 587	124 459	18 361	7 353	8 925
	VALUE ADDED, ADJUSTED....DO..	285 759	114 620	106 314	8 306	171 139	139 131	32 008	245 445	40 314	14 802	22 653
	VALUE OF SHIPMENTS.....DO..	716 650	337 197	316 569	20 628	379 453	307 868	71 585	624 437	92 213	35 652	51 264
2393	TEXTILE BAGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	192	41	37	4	151	86	65	123	69	48	19
	WITH 20 EMP. OR MORE....DO..	88	35	32	3	53	47	6	79	9	5	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	7 191	4 021	3 815	206	3 170	2 737	433	6 552	639	321	(D)
	PAYROLL.....$1,000..	28 254	16 206	15 614	592	12 048	10 683	1 365	26 297	1 957	883	(D)
	VALUE ADDED, ADJUSTED....DO..	56 523	33 287	31 761	1 526	23 236	19 573	3 663	51 334	5 189	2 360	(D)
	VALUE OF SHIPMENTS.....DO..	200 426	120 963	113 514	7 449	79 463	69 896	9 567	183 410	17 016	5 662	(D)
2394	CANVAS PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	881	37	34	3	844	323	521	357	524	416	101
	WITH 20 EMP. OR MORE....DO..	124	22	21	1	102	88	14	109	15	5	10
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 170	2 510	2 479	31	8 660	6 334	2 326	8 813	2 357	1 499	799
	PAYROLL.....$1,000..	44 550	10 098	9 963	135	34 452	25 949	8 503	35 912	8 638	5 355	2 971
	VALUE ADDED, ADJUSTED....DO..	73 534	15 628	15 331	297	57 906	41 406	16 500	56 737	16 797	10 361	5 935
	VALUE OF SHIPMENTS.....DO..	166 402	41 678	41 026	652	124 724	90 255	34 469	131 281	35 121	21 818	12 265
2395	PLEATING AND STITCHING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 316	17	15	2	1 299	511	788	526	790	603	182
	WITH 20 EMP. OR MORE....DO..	245	9	8	1	236	183	53	191	54	21	32
	ALL EMPLOYEES:											
	TOTAL.....DO..	16 353	402	(D)	(D)	15 951	(D)	(D)	11 149	5 204	3 210	1 907
	PAYROLL.....$1,000..	55 528	1 345	(D)	(D)	54 183	(D)	(D)	40 099	15 429	9 078	5 995
	VALUE ADDED, ADJUSTED....DO..	95 240	4 118	(D)	(D)	91 122	(D)	(D)	66 155	29 085	17 266	11 336
	VALUE OF SHIPMENTS.....DO..	150 183	7 271	(D)	(D)	142 912	(D)	(D)	106 563	43 620	25 011	17 751
2396	APPAREL FINDINGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	756	44	43	1	712	417	295	460	296	198	93
	WITH 20 EMP. OR MORE....DO..	213	32	31	1	181	154	27	185	28	10	16
	ALL EMPLOYEES:											
	TOTAL.....DO..	24 539	12 170	(D)	(D)	12 369	(D)	(D)	22 095	2 444	1 234	1 062
	PAYROLL.....$1,000..	122 633	75 518	(D)	(D)	47 115	(D)	(D)	114 604	8 029	3 879	3 716
	VALUE ADDED, ADJUSTED....DO..	227 810	141 055	(D)	(D)	86 755	(D)	(D)	212 186	15 624	6 893	7 785
	VALUE OF SHIPMENTS.....DO..	570 616	384 180	(D)	(D)	186 436	(D)	(D)	539 028	31 588	13 836	16 024
2397	SCHIFFLI MACHINE EMBROIDERIES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	759	14	13	1	745	290	455	303	456	272	181
	WITH 20 EMP. OR MORE....DO..	68	6	6	-	62	50	12	56	12	4	7
	ALL EMPLOYEES:											
	TOTAL.....DO..	6 145	610	(D)	(D)	5 535	(D)	(D)	4 195	1 950	911	1 005
	PAYROLL.....$1,000..	30 517	2 829	(D)	(D)	27 688	(D)	(D)	21 679	8 838	3 873	4 820
	VALUE ADDED, ADJUSTED....DO..	55 411	4 995	(D)	(D)	50 416	(D)	(D)	36 877	18 534	8 126	10 180
	VALUE OF SHIPMENTS.....DO..	97 406	8 201	(D)	(D)	89 205	(D)	(D)	67 363	30 043	11 907	17 806
2399	TEXTILE PRODUCTS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 044	82	73	9	962	370	592	443	601	505	89
	WITH 20 EMP. OR MORE....DO..	240	65	59	6	175	150	25	209	31	16	13
	ALL EMPLOYEES:											
	TOTAL.....DO..	21 350	8 630	7 487	1 143	12 720	9 139	3 581	16 626	4 724	3 005	1 645
	PAYROLL.....$1,000..	79 252	31 944	28 331	3 613	47 308	36 429	10 879	64 760	14 492	9 153	5 046
	VALUE ADDED, ADJUSTED....DO..	145 153	61 871	56 689	5 182	83 282	63 191	20 091	119 880	25 273	16 803	7 923
	VALUE OF SHIPMENTS.....DO..	342 311	159 885	145 874	14 011	182 426	144 514	37 912	290 388	51 923	33 737	17 104

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies				Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership	Corporate	Total[2]	Individual	Partnership
24	LUMBER AND WOOD PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	36 150	1 997	1 835	162	34 153	7 023	27 130	8 858	27 292	22 438	4 501
	WITH 20 EMP. OR MORE..DO..	5 765	1 452	1 372	80	4 313	3 130	1 183	4 502	1 263	644	573
	ALL EMPLOYEES:											
	TOTAL.....DO..	563 135	201 258	194 890	6 368	361 877	213 473	148 404	408 363	154 772	102 740	46 985
	PAYROLL.....$1,000..	2 338 753	959 055	932 708	26 347	1 379 698	924 231	455 467	1 856 939	481 814	296 973	161 962
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	497 409	177 448	171 612	5 836	319 961	186 471	133 490	358 083	139 326	92 192	42 599
	MAN-HOURS.....1,000..	978 665	357 672	346 097	11 575	620 993	368 860	252 133	714 957	263 708	172 223	82 503
	WAGES.....$1,000..	1 943 287	789 582	766 216	23 366	1 153 705	742 443	411 262	1 508 659	434 628	268 449	146 292
	VALUE ADDED, ADJUSTED...DO..	4 020 600	1 624 467	1 578 843	45 624	2 396 133	1 551 817	844 316	3 130 660	889 940	547 867	307 774
	CAPITAL EXPEND., NEW[2]...DO..	394 729	137 405	134 485	2 920	257 324	137 921	119 403	272 406	122 323	85 131	34 570
2411	LOGGING CAMPS AND CONTRACTORS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	13 588	155	129	26	13 433	814	12 619	943	12 645	10 923	1 551
	WITH 20 EMP. OR MORE....DO..	557	84	75	9	473	219	254	294	263	174	88
	ALL EMPLOYEES:											
	TOTAL.....DO..	73 130	10 410	9 982	428	62 720	13 393	49 327	23 375	49 755	40 065	9 290
	PAYROLL.....$1,000..	281 845	57 298	55 187	2 111	224 547	68 446	156 101	123 633	158 212	120 102	36 992
	VALUE ADDED, ADJUSTED.....DO..	520 457	88 754	85 097	3 657	431 703	122 471	309 232	207 568	312 889	235 231	75 485
	VALUE OF SHIPMENTS.....DO..	1 154 693	322 299	315 611	6 688	832 394	244 752	587 642	560 363	594 330	449 095	141 027
2421	SAWMILLS AND PLANING MILLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	12 189	611	545	66	11 578	2 050	9 528	2 595	9 594	7 638	1 850
	WITH 20 EMP. OR MORE....DO..	2 151	480	447	33	1 671	1 055	616	1 502	649	317	317
	ALL EMPLOYEES:											
	TOTAL.....DO..	207 365	74 545	71 981	2 564	132 820	67 740	65 080	139 721	67 644	42 150	23 884
	PAYROLL.....$1,000..	811 638	362 093	351 804	10 289	449 545	273 921	175 624	625 725	185 913	105 278	75 045
	VALUE ADDED, ADJUSTED.....DO..	1 376 080	589 609	569 867	19 742	786 471	471 352	315 119	1 041 219	334 861	187 377	137 803
	VALUE OF SHIPMENTS.....DO..	3 156 345	1 336 601	1 299 696	36 905	1 819 744	1 114 768	704 976	2 414 464	741 881	409 595	314 803
2426	HARDWOOD DIMENSION & FLOORING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	642	123	115	8	519	283	236	398	244	177	61
	WITH 20 EMP. OR MORE....DO..	317	89	84	5	228	187	41	271	46	21	24
	ALL EMPLOYEES:											
	TOTAL.....DO..	28 128	12 305	11 733	572	15 823	13 116	2 707	24 849	3 279	1 601	1 605
	PAYROLL.....$1,000..	98 882	43 945	42 008	1 937	54 937	47 023	7 914	89 031	9 851	4 575	4 866
	VALUE ADDED, ADJUSTED.....DO..	155 083	69 935	66 572	3 363	85 148	73 734	11 414	140 306	14 777	5 710	8 888
	VALUE OF SHIPMENTS.....DO..	345 227	160 770	152 620	8 150	184 457	156 408	28 049	309 028	36 199	16 887	19 029
2429	SPECIAL PRODUCT SAWMILLS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	541	98	86	12	443	143	300	229	312	237	65
	WITH 20 EMP. OR MORE....DO..	107	38	36	2	69	52	17	88	19	8	11
	ALL EMPLOYEES:											
	TOTAL.....DO..	7 164	2 504	2 329	175	4 660	2 706	1 954	5 035	2 129	1 321	729
	PAYROLL.....$1,000..	25 223	9 395	8 947	448	15 828	10 279	5 549	19 226	5 997	3 705	2 057
	VALUE ADDED, ADJUSTED.....DO..	41 355	13 271	12 621	650	28 084	18 060	10 024	30 681	10 674	6 313	4 112
	VALUE OF SHIPMENTS.....DO..	96 032	35 494	33 753	1 741	60 538	37 907	22 631	71 660	24 372	14 242	9 169
2431	MILLWORK PLANTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	3 770	169	158	11	3 601	1 468	2 133	1 626	2 144	1 696	431
	WITH 20 EMP. OR MORE....DO..	748	132	126	6	616	558	58	684	64	24	36
	ALL EMPLOYEES:											
	TOTAL.....DO..	65 283	16 913	16 425	488	48 370	38 655	9 715	55 080	10 203	6 650	3 168
	PAYROLL.....$1,000..	320 817	81 812	79 774	2 038	239 005	195 315	43 690	275 089	45 728	28 895	14 927
	VALUE ADDED, ADJUSTED.....DO..	559 211	334 047	325 792	8 255	225 164	192 259	32 905	518 051	41 160	6 996	19 001
	VALUE OF SHIPMENTS.....DO..	1 339 630	806 221	781 970	24 251	533 409	455 653	77 756	1 237 623	102 007	11 934	49 993
2432	VENEER AND PLYWOOD PLANTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	641	208	198	10	433	340	93	538	103	45	46
	WITH 20 EMP. OR MORE....DO..	503	191	181	10	312	272	40	453	50	7	33
	ALL EMPLOYEES:											
	TOTAL.....DO..	66 155	36 918	35 810	1 108	29 237	25 157	4 080	60 967	5 188	660	2 863
	PAYROLL.....$1,000..	324 746	191 900	186 087	5 813	132 846	114 258	18 588	300 345	24 401	2 872	10 948
	VALUE ADDED, ADJUSTED.....DO..	559 211	334 047	325 792	8 255	225 164	192 259	32 905	518 051	41 160	6 996	19 001
	VALUE OF SHIPMENTS.....DO..	1 339 630	806 221	781 970	24 251	533 409	455 653	77 756	1 237 623	102 007	11 934	49 993
2433	PREFABRICATED WOOD PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	559	82	79	3	477	343	134	422	137	107	24
	WITH 20 EMP. OR MORE....DO..	203	60	59	1	143	133	10	192	11	3	5
	ALL EMPLOYEES:											
	TOTAL.....DO..	15 806	7 070	7 015	55	8 736	7 768	968	14 783	1 023	594	285
	PAYROLL.....$1,000..	81 079	38 037	37 823	214	43 042	39 133	3 909	76 956	4 123	2 491	1 117
	VALUE ADDED, ADJUSTED.....DO..	156 593	75 495	75 049	446	81 098	74 434	6 664	149 483	7 110	4 219	2 365
	VALUE OF SHIPMENTS.....DO..	403 309	198 578	197 062	1 516	204 731	187 664	17 067	384 726	18 583	12 430	5 128
2441	NAILED WOODEN BOXES AND SHOOK											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	663	63	58	5	600	249	351	307	356	259	95
	WITH 20 EMP. OR MORE....DO..	183	43	39	4	140	112	28	151	32	17	14
	ALL EMPLOYEES:											
	TOTAL.....DO..	14 483	4 863	4 512	351	9 620	6 844	2 776	11 356	3 127	1 860	(D)
	PAYROLL.....$1,000..	55 858	20 710	19 709	1 001	35 148	26 448	8 700	46 157	9 701	5 550	(D)
	VALUE ADDED, ADJUSTED.....DO..	85 046	28 334	26 748	1 586	56 712	40 962	15 750	67 710	17 336	9 757	(D)
	VALUE OF SHIPMENTS.....DO..	206 020	82 076	77 831	4 245	123 944	89 416	34 528	167 247	38 773	21 402	(D)

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
24	LUMBER AND WOOD PRODUCTS--CONTINUED											
2442	WIREBOUND BOXES AND CRATES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	117	38	36	2	79	41	38	77	40	30	7
	WITH 20 EMP. OR MORE....DO..	70	36	35	1	34	30	4	65	5	2	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	9 893	5 877	(D)	(D)	4 016	(D)	(D)	9 446	447	203	63
	PAYROLL.....$1,000..	32 717	19 717	(D)	(D)	13 000	(D)	(D)	31 300	1 417	507	256
	VALUE ADDED, ADJUSTED.....DO..	55 606	34 544	(D)	(D)	21 062	(D)	(D)	53 230	2 376	990	539
	VALUE OF SHIPMENTS.....DO..	114 669	72 005	(D)	(D)	42 664	(D)	(D)	109 669	5 000	2 195	972
2443	VENEER AND PLYWOOD CONTAINERS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	99	13	13	-	86	38	48	51	48	32	15
	WITH 20 EMP. OR MORE....DO..	44	9	9	-	35	21	14	30	14	7	6
	ALL EMPLOYEES:											
	TOTAL.....DO..	3 953	1 414	1 414	-	2 539	1 337	1 202	2 751	1 202	408	(D)
	PAYROLL.....$1,000..	11 649	4 450	4 450	-	7 199	3 947	3 252	8 397	3 252	1 007	(D)
	VALUE ADDED, ADJUSTED.....DO..	16 086	5 990	5 990	-	10 096	5 642	4 454	11 632	4 454	1 224	(D)
	VALUE OF SHIPMENTS.....DO..	27 923	10 327	10 327	-	17 596	9 887	7 709	20 214	7 709	2 292	(D)
2445	COOPERAGE											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	107	54	54	-	53	18	35	72	35	24	11
	WITH 20 EMP. OR MORE....DO..	23	18	18	-	5	5	-	23	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	2 616	2 138	2 138	-	478	306	172	2 444	172	113	59
	PAYROLL.....$1,000..	11 580	10 115	10 115	-	1 465	1 018	447	11 133	447	290	157
	VALUE ADDED, ADJUSTED.....DO..	17 494	14 968	14 968	-	2 526	1 662	864	16 630	864	551	313
	VALUE OF SHIPMENTS.....DO..	52 917	46 648	46 648	-	6 269	4 259	2 010	50 907	2 010	1 394	616
2491	WOOD PRESERVING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	338	138	135	3	200	114	86	249	89	63	24
	WITH 20 EMP. OR MORE....DO..	157	112	109	3	45	38	7	147	10	3	6
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 178	8 007	(D)	(D)	3 171	(D)	(D)	10 422	756	351	(D)
	PAYROLL.....$1,000..	45 257	33 202	(D)	(D)	12 055	(D)	(D)	42 754	2 503	1 064	(D)
	VALUE ADDED, ADJUSTED.....DO..	93 265	71 721	(D)	(D)	21 544	(D)	(D)	88 287	4 978	1 935	(D)
	VALUE OF SHIPMENTS.....DO..	247 294	188 195	(D)	(D)	59 099	(D)	(D)	234 556	12 738	5 322	(D)
2499	WOOD PRODUCTS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	2 896	245	229	16	2 651	1 122	1 529	1 351	1 545	1 207	321
	WITH 20 EMP. OR MORE....DO..	702	160	154	6	542	448	94	602	100	61	32
	ALL EMPLOYEES:											
	TOTAL.....DO..	57 981	18 294	17 897	397	39 687	30 237	9 450	48 134	9 847	6 764	2 780
	PAYROLL.....$1,000..	237 442	86 361	84 862	1 499	151 081	122 311	28 770	207 173	30 269	20 637	8 528
	VALUE ADDED, ADJUSTED.....DO..	420 283	162 416	159 674	2 742	257 867	205 221	52 646	364 895	55 388	36 036	17 616
	VALUE OF SHIPMENTS.....DO..	785 367	292 785	286 825	5 960	492 582	389 697	102 885	676 522	108 845	72 477	32 721
25	FURNITURE AND FIXTURES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	10 478	928	879	49	9 550	4 886	4 664	5 765	4 713	3 670	988
	WITH 20 EMP. OR MORE..DO..	3 313	733	714	19	2 580	2 320	260	3 034	279	117	142
	ALL EMPLOYEES:											
	TOTAL.....DO..	376 548	159 170	157 565	1 605	217 378	187 507	29 871	345 072	31 476	19 223	10 954
	PAYROLL.....$1,000..	1 726 707	747 409	740 813	6 596	979 298	857 271	122 027	1 598 084	128 623	79 049	44 361
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	314 762	132 031	130 660	1 371	182 731	157 190	25 541	287 850	26 912	16 395	9 467
	MAN-HOURS.....1,000..	639 698	271 241	268 508	2 733	368 457	317 043	51 414	585 551	54 147	33 076	18 978
	WAGES.....$1,000..	1 289 989	555 735	550 534	5 201	734 254	634 222	100 032	1 184 756	105 233	65 283	36 116
	VALUE ADDED, ADJUSTED...DO..	3 068 287	1 386 473	1 374 764	11 709	1 681 814	1 457 371	224 443	2 832 135	236 152	142 304	84 974
	CAPITAL EXPEND., NEW[3]...DO..	110 180	42 578	42 428	150	67 602	58 163	9 439	100 591	9 589	6 664	2 744
2511	WOOD FURNITURE NOT UPHOLSTERED											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	3 063	299	289	10	2 764	1 285	1 479	1 574	1 489	1 183	297
	WITH 20 EMP. OR MORE....DO..	992	251	245	6	741	663	78	908	84	40	40
	ALL EMPLOYEES:											
	TOTAL.....DO..	140 982	64 255	63 789	466	76 727	67 227	9 500	131 016	9 966	6 764	2 849
	PAYROLL.....$1,000..	574 614	263 625	261 684	1 941	310 989	274 750	36 239	536 434	38 180	26 812	10 378
	VALUE ADDED, ADJUSTED.....DO..	993 200	464 116	460 682	3 434	529 084	462 664	66 420	923 346	69 854	47 365	20 630
	VALUE OF SHIPMENTS.....DO..	1 857 992	859 648	852 827	6 821	998 344	874 075	124 269	1 726 902	131 090	88 985	38 532
2512	WOOD FURNITURE, UPHOLSTERED											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 785	153	139	14	1 632	949	683	1 088	697	525	168
	WITH 20 EMP. OR MORE....DO..	713	130	122	8	583	520	63	642	71	33	35
	ALL EMPLOYEES:											
	TOTAL.....DO..	67 650	23 214	22 453	761	44 436	38 708	5 728	61 161	6 489	3 477	2 757
	PAYROLL.....$1,000..	291 587	102 335	99 150	3 185	189 252	167 777	21 475	266 927	24 660	12 661	10 948
	VALUE ADDED, ADJUSTED.....DO..	506 727	185 541	180 153	5 388	321 186	284 191	36 995	464 344	42 383	21 538	19 166
	VALUE OF SHIPMENTS.....DO..	983 204	358 427	348 407	10 020	624 777	554 954	69 823	903 361	79 843	40 848	35 682
2514	METAL HOUSEHOLD FURNITURE											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	517	64	63	1	453	303	150	366	151	118	29
	WITH 20 EMP. OR MORE....DO..	244	59	59	-	185	171	14	230	14	4	8
	ALL EMPLOYEES:											
	TOTAL.....DO..	29 346	12 083	(D)	(D)	17 263	(D)	(D)	27 697	1 649	791	751
	PAYROLL.....$1,000..	128 819	56 266	(D)	(D)	72 553	(D)	(D)	122 929	5 890	2 978	2 507
	VALUE ADDED, ADJUSTED.....DO..	247 003	108 452	(D)	(D)	138 551	(D)	(D)	235 731	11 272	5 986	4 589
	VALUE OF SHIPMENTS.....DO..	524 305	224 024	(D)	(D)	300 281	(D)	(D)	499 501	24 804	12 475	11 089

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies				Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership	Corporate	Total[2]	Individual	Partnership
25	FURNITURE AND FIXTURES--CONTINUED											
2515	MATTRESSES AND BEDSPRINGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 120	111	104	7	1 009	487	522	591	529	401	120
	WITH 20 EMP. OR MORE....DO..	340	84	81	3	256	224	32	305	35	13	20
	ALL EMPLOYEES:											
	TOTAL.....DO..	30 061	13 050	12 783	267	17 011	13 367	3 644	26 150	3 911	2 289	1 466
	PAYROLL.....$1,000..	146 287	67 893	66 847	1 046	78 394	64 128	14 266	130 975	15 312	8 690	5 849
	VALUE ADDED, ADJUSTED.....DO..	285 510	134 513	132 407	2 106	150 997	122 365	28 632	254 772	30 738	17 473	11 778
	VALUE OF SHIPMENTS.....DO..	641 008	287 390	282 518	4 872	353 618	284 706	68 912	567 224	73 784	41 225	29 093
2519	HOUSEHOLD FURNITURE, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	75	20	18	2	55	36	19	54	21	15	6
	WITH 20 EMP. OR MORE....DO..	30	7	7	-	23	21	2	28	2	-	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	2 054	865	(D)	(D)	1 189	(D)	(D)	1 916	138	37	101
	PAYROLL.....$1,000..	8 384	3 640	(D)	(D)	4 744	(D)	(D)	7 792	592	166	426
	VALUE ADDED, ADJUSTED.....DO..	15 054	7 814	(D)	(D)	7 240	(D)	(D)	13 995	1 059	321	738
	VALUE OF SHIPMENTS.....DO..	28 937	13 715	(D)	(D)	15 222	(D)	(D)	27 047	1 890	556	1 334
2521	WOOD OFFICE FURNITURE											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	138	21	19	2	117	72	45	91	47	37	10
	WITH 20 EMP. OR MORE....DO..	58	18	18	-	40	38	2	56	2	2	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	6 516	2 267	(D)	(D)	4 249	(D)	(D)	6 242	274	219	55
	PAYROLL.....$1,000..	30 560	10 466	(D)	(D)	20 094	(D)	(D)	29 210	1 350	1 057	293
	VALUE ADDED, ADJUSTED.....DO..	57 018	19 224	(D)	(D)	37 794	(D)	(D)	54 837	2 181	1 593	588
	VALUE OF SHIPMENTS.....DO..	101 514	37 469	(D)	(D)	64 045	(D)	(D)	97 526	3 988	2 962	1 026
2522	METAL OFFICE FURNITURE											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	170	45	45	-	125	92	33	137	33	21	10
	WITH 20 EMP. OR MORE....DO..	107	43	43	-	64	60	4	103	4	1	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	19 928	14 142	14 142	-	5 786	5 507	279	19 649	279	77	(D)
	PAYROLL.....$1,000..	112 080	84 066	84 066	-	28 014	26 926	1 088	110 992	1 088	374	(D)
	VALUE ADDED, ADJUSTED.....DO..	228 329	176 631	176 631	-	51 698	49 636	2 062	226 267	2 062	691	(D)
	VALUE OF SHIPMENTS.....DO..	389 965	296 490	296 490	-	93 475	89 372	4 103	385 862	4 103	1 130	(D)
2531	PUBLIC BUILDING FURNITURE											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	429	38	37	1	391	218	173	255	174	134	31
	WITH 20 EMP. OR MORE....DO..	164	32	32	-	132	117	15	149	15	4	8
	ALL EMPLOYEES:											
	TOTAL.....DO..	16 949	7 423	(D)	(D)	9 526	(D)	(D)	15 563	1 386	752	501
	PAYROLL.....$1,000..	83 373	38 760	(D)	(D)	44 613	(D)	(D)	77 878	5 495	2 726	2 016
	VALUE ADDED, ADJUSTED.....DO..	141 176	67 088	(D)	(D)	74 668	(D)	(D)	131 641	10 115	4 890	4 220
	VALUE OF SHIPMENTS.....DO..	268 563	117 531	(D)	(D)	151 032	(D)	(D)	249 315	19 248	9 690	8 051
2541	WOOD PARTITIONS AND FIXTURES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 594	46	41	5	1 548	757	791	798	796	612	176
	WITH 20 EMP. OR MORE....DO..	347	26	25	1	321	288	33	313	34	15	16
	ALL EMPLOYEES:											
	TOTAL.....DO..	24 343	2 235	2 194	41	22 108	17 908	4 200	20 102	4 241	2 713	1 360
	PAYROLL.....$1,000..	142 521	12 269	12 059	210	130 252	108 137	22 115	120 196	22 325	14 109	7 461
	VALUE ADDED, ADJUSTED.....DO..	219 194	20 772	20 446	326	198 422	159 952	38 470	180 398	38 796	24 098	13 329
	VALUE OF SHIPMENTS.....DO..	389 609	36 079	35 422	657	353 530	284 261	69 269	319 683	69 926	43 278	24 042
2542	METAL PARTITIONS AND FIXTURES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	513	59	59	-	454	256	198	315	198	160	34
	WITH 20 EMP. OR MORE....DO..	167	48	48	-	119	113	6	161	6	2	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	20 290	11 275	11 275	-	9 015	8 043	972	19 318	972	649	294
	PAYROLL.....$1,000..	119 301	68 094	68 094	-	51 207	45 692	5 515	113 786	5 515	3 878	1 510
	VALUE ADDED, ADJUSTED.....DO..	217 851	131 265	131 265	-	86 586	76 277	10 309	207 542	10 309	7 041	2 981
	VALUE OF SHIPMENTS.....DO..	381 964	223 338	223 338	-	158 626	139 945	18 681	363 283	18 681	13 002	5 105
2591	VENETIAN BLINDS AND SHADES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	718	51	45	6	667	234	433	279	439	353	81
	WITH 20 EMP. OR MORE....DO..	60	24	23	1	36	30	6	53	7	-	6
	ALL EMPLOYEES:											
	TOTAL.....DO..	10 689	6 496	6 456	40	4 193	2 786	1 407	9 242	1 447	938	447
	PAYROLL.....$1,000..	49 590	31 334	31 205	129	18 256	13 353	4 903	44 558	5 032	3 268	1 573
	VALUE ADDED, ADJUSTED.....DO..	94 324	60 709	60 433	276	33 615	22 946	10 669	83 379	10 945	7 198	3 486
	VALUE OF SHIPMENTS.....DO..	199 552	127 365	126 856	509	72 187	48 952	23 235	175 808	23 744	15 753	7 468
2599	FURNITURE AND FIXTURES, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	356	21	20	1	335	197	138	217	139	111	26
	WITH 20 EMP. OR MORE....DO..	91	11	11	-	80	75	5	86	5	3	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	7 540	1 665	(D)	(D)	5 875	(D)	(D)	6 816	724	517	(D)
	PAYROLL.....$1,000..	39 591	8 661	(D)	(D)	30 930	(D)	(D)	36 407	3 184	2 330	(D)
	VALUE ADDED, ADJUSTED.....DO..	65 871	13 898	(D)	(D)	51 973	(D)	(D)	59 433	6 438	4 110	(D)
	VALUE OF SHIPMENTS.....DO..	121 572	24 856	(D)	(D)	96 716	(D)	(D)	109 648	11 924	8 202	(D)

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies				Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership	Corporate	Total[2]	Individual	Partnership
26	PAPER AND ALLIED PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	5 713	2 354	2 326	28	3 359	2 522	837	4 848	865	627	216
	WITH 20 EMP. OR MORE..DO..	3 552	2 091	2 075	16	1 461	1 364	97	3 439	113	39	61
	ALL EMPLOYEES:											
	TOTAL.....DO..	588 014	479 327	475 427	3 900	108 687	100 119	8 568	575 546	12 468	4 557	3 477
	PAYROLL.....$1,000..	3 508 185	2 952 973	2 934 054	18 919	555 212	518 325	36 887	3 452 379	55 806	19 540	15 795
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	467 795	380 085	377 692	2 393	87 710	80 507	7 203	458 199	9 596	3 768	2 120
	MAN-HOURS.....1,000..	988 582	809 975	805 139	4 836	178 607	164 184	14 423	969 323	19 259	7 496	4 186
	WAGES.....$1,000..	2 551 148	2 171 792	2 161 486	10 306	379 356	351 768	27 588	2 513 254	37 894	13 988	8 507
	VALUE ADDED, ADJUSTED...DO..	7 395 677	6 350 317	6 315 074	35 243	1 045 360	971 669	73 691	7 286 743	108 934	39 296	30 970
	CAPITAL EXPEND., NEW[3]...DO..	708 532	605 989	604 474	1 515	102 543	98 254	4 289	702 728	5 804	2 603	1 242
2611	PULP MILLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	45	37	37	-	8	7	1	44	1	-	1
	WITH 20 EMP. OR MORE....DO..	40	33	33	-	7	6	1	39	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	15 123	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	-	(D)
	PAYROLL.....$1,000..	107 359	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	-	(D)
	VALUE ADDED, ADJUSTED.....DO..	295 804	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	-	(D)
	VALUE OF SHIPMENTS.....DO..	609 050	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	-	(D)
2621	PAPER MILLS, EXCEPT BUILDING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	325	262	262	-	63	59	4	321	4	4	-
	WITH 20 EMP. OR MORE....DO..	313	258	258	-	55	53	2	311	2	2	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	129 848	123 899	123 899	-	5 949	5 815	134	129 714	134	134	-
	PAYROLL.....$1,000..	877 942	841 650	841 650	-	36 292	35 382	910	877 032	910	910	-
	VALUE ADDED, ADJUSTED.....DO..	1 857 203	1 786 961	1 786 961	-	70 242	68 764	1 478	1 855 725	1 478	1 478	-
	VALUE OF SHIPMENTS.....DO..	3 824 915	3 661 694	3 661 694	-	163 221	159 649	3 572	3 821 343	3 572	3 572	-
2631	PAPERBOARD MILLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	271	221	221	-	50	46	4	267	4	3	1
	WITH 20 EMP. OR MORE....DO..	259	214	214	-	45	44	1	258	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	63 398	59 363	59 363	-	4 035	3 930	105	63 293	105	32	(D)
	PAYROLL.....$1,000..	429 017	404 385	404 385	-	24 632	23 902	730	428 287	730	181	(D)
	VALUE ADDED, ADJUSTED.....DO..	1 186 224	1 126 548	1 126 548	-	59 676	57 929	1 747	1 184 477	1 747	442	(D)
	VALUE OF SHIPMENTS.....DO..	2 315 954	2 195 488	2 195 488	-	120 466	117 708	2 758	2 313 196	2 758	879	(D)
2641	PAPER COATING AND GLAZING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	387	146	144	2	241	183	58	327	60	42	16
	WITH 20 EMP. OR MORE....DO..	181	110	109	1	71	68	3	177	4	1	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	31 983	25 749	(D)	(D)	6 234	(D)	(D)	31 483	500	244	(D)
	PAYROLL.....$1,000..	200 794	163 484	(D)	(D)	37 310	(D)	(D)	197 961	2 833	1 552	(D)
	VALUE ADDED, ADJUSTED.....DO..	457 367	381 925	(D)	(D)	75 442	(D)	(D)	450 025	7 342	3 806	(D)
	VALUE OF SHIPMENTS.....DO..	1 161 604	987 665	(D)	(D)	173 939	(D)	(D)	1 145 388	16 216	8 181	(D)
2642	ENVELOPES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	230	85	83	2	145	114	31	197	33	24	8
	WITH 20 EMP. OR MORE....DO..	173	80	79	1	93	88	5	167	6	3	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	20 728	12 729	(D)	(D)	7 999	(D)	(D)	20 164	564	244	(D)
	PAYROLL.....$1,000..	114 860	71 588	(D)	(D)	43 272	(D)	(D)	111 967	2 893	1 099	(D)
	VALUE ADDED, ADJUSTED.....DO..	188 963	117 024	(D)	(D)	71 939	(D)	(D)	184 162	4 801	2 083	(D)
	VALUE OF SHIPMENTS.....DO..	363 250	230 977	(D)	(D)	132 273	(D)	(D)	353 206	10 044	3 893	(D)
2643	BAGS, EXCEPT TEXTILE BAGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	586	179	173	6	407	300	107	473	113	87	21
	WITH 20 EMP. OR MORE....DO..	297	159	157	2	138	133	5	290	7	2	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	42 343	32 021	31 908	113	10 322	9 706	616	41 614	729	440	178
	PAYROLL.....$1,000..	219 137	171 810	171 355	455	47 327	44 860	2 467	216 215	2 922	1 767	708
	VALUE ADDED, ADJUSTED.....DO..	369 685	272 565	271 478	1 087	97 120	91 175	5 945	362 653	7 032	4 183	1 774
	VALUE OF SHIPMENTS.....DO..	1 061 715	828 227	825 546	2 681	233 488	217 823	15 665	1 043 369	18 346	10 208	5 491
2644	WALLPAPER											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	79	7	7	-	72	61	11	68	11	9	-
	WITH 20 EMP. OR MORE....DO..	31	5	5	-	26	24	2	29	2	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	2 194	501	501	-	1 693	1 611	82	2 112	82	(D)	-
	PAYROLL.....$1,000..	11 866	2 936	2 936	-	8 930	8 529	401	11 465	401	(D)	-
	VALUE ADDED, ADJUSTED.....DO..	20 907	5 638	5 638	-	15 269	14 710	559	20 348	559	(D)	-
	VALUE OF SHIPMENTS.....DO..	36 548	10 125	10 125	-	26 423	25 342	1 081	35 467	1 081	(D)	-
2645	DIE CUT PAPER AND BOARD											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	425	115	113	2	310	205	105	318	107	79	27
	WITH 20 EMP. OR MORE....DO..	156	80	80	-	76	71	5	151	5	3	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	15 135	9 686	(D)	(D)	5 449	(D)	(D)	14 461	674	397	(D)
	PAYROLL.....$1,000..	83 373	56 076	(D)	(D)	27 297	(D)	(D)	80 603	2 770	1 424	(D)
	VALUE ADDED, ADJUSTED.....DO..	183 185	129 179	(D)	(D)	54 006	(D)	(D)	177 046	6 139	3 780	(D)
	VALUE OF SHIPMENTS.....DO..	378 332	268 576	(D)	(D)	109 756	(D)	(D)	367 301	11 031	6 492	(D)

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
26	PAPER AND ALLIED PRODUCTS--CONTINUED											
2646	PRESSED AND MOLDED PULP GOODS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	59	28	26	2	31	27	4	53	6	3	3
	WITH 20 EMP. OR MORE....DO..	42	26	25	1	16	16	-	41	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	5 720	4 937	(D)	(D)	783	(D)	(D)	5 679	41	5	36
	PAYROLL.....$1,000..	32 862	28 763	(D)	(D)	4 099	(D)	(D)	32 657	205	24	181
	VALUE ADDED, ADJUSTED.....DO..	70 006	62 700	(D)	(D)	7 306	(D)	(D)	69 592	414	70	344
	VALUE OF SHIPMENTS.....DO..	110 135	97 895	(D)	(D)	12 240	(D)	(D)	109 525	610	103	507
2647	SANITARY PAPER PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	119	58	58	-	61	52	9	110	9	5	4
	WITH 20 EMP. OR MORE....DO..	77	51	51	-	26	25	1	76	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	19 108	17 215	17 215	-	1 893	1 796	97	19 011	97	26	71
	PAYROLL.....$1,000..	112 539	102 839	102 839	-	9 700	9 250	450	112 089	450	87	363
	VALUE ADDED, ADJUSTED.....DO..	369 711	348 183	348 183	-	21 528	20 174	1 354	368 357	1 354	260	1 094
	VALUE OF SHIPMENTS.....DO..	983 019	927 446	927 446	-	55 573	52 364	3 209	979 810	3 209	575	2 634
2649	CONVERTED PAPER PRODUCTS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	610	133	126	7	477	303	174	429	181	136	40
	WITH 20 EMP. OR MORE....DO..	239	106	102	4	133	118	15	220	19	6	10
	ALL EMPLOYEES:											
	TOTAL.....DO..	29 514	19 535	16 742	2 793	9 979	8 317	1 662	25 059	4 455	876	695
	PAYROLL.....$1,000..	141 902	94 443	81 603	12 840	47 459	40 739	6 720	122 342	19 560	3 611	2 804
	VALUE ADDED, ADJUSTED.....DO..	302 546	206 575	181 523	25 052	95 971	81 985	13 986	263 508	39 038	7 627	6 029
	VALUE OF SHIPMENTS.....DO..	591 750	404 267	362 536	41 731	187 483	159 451	28 032	521 987	69 763	13 946	11 087
2651	FOLDING PAPERBOARD BOXES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	636	196	194	2	440	352	88	546	90	66	22
	WITH 20 EMP. OR MORE....DO..	418	180	178	2	238	226	12	404	14	6	6
	ALL EMPLOYEES:											
	TOTAL.....DO..	51 291	34 729	(D)	(D)	16 562	(D)	(D)	49 678	1 613	768	(D)
	PAYROLL.....$1,000..	288 841	203 208	(D)	(D)	85 633	(D)	(D)	281 300	7 541	3 406	(D)
	VALUE ADDED, ADJUSTED.....DO..	476 866	331 064	(D)	(D)	145 802	(D)	(D)	464 699	12 167	6 071	(D)
	VALUE OF SHIPMENTS.....DO..	1 081 147	798 511	(D)	(D)	282 636	(D)	(D)	1 054 472	26 675	12 071	(D)
2652	SET-UP PAPERBOARD BOXES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	503	80	80	-	423	317	106	397	106	65	38
	WITH 20 EMP. OR MORE....DO..	317	67	67	-	250	218	32	285	32	9	20
	ALL EMPLOYEES:											
	TOTAL.....DO..	20 459	5 734	5 734	-	14 725	12 772	1 953	18 506	1 953	731	962
	PAYROLL.....$1,000..	82 229	24 462	24 462	-	57 767	51 079	6 688	75 541	6 688	2 535	3 133
	VALUE ADDED, ADJUSTED.....DO..	131 688	42 468	42 468	-	89 220	78 363	10 857	120 831	10 857	4 110	5 041
	VALUE OF SHIPMENTS.....DO..	225 794	77 581	77 581	-	148 213	129 587	18 626	207 168	18 626	7 678	8 289
2653	CORRUGATED SHIPPING CONTAINERS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	923	494	490	4	429	339	90	829	94	70	22
	WITH 20 EMP. OR MORE....DO..	651	445	441	4	206	195	11	636	15	3	10
	ALL EMPLOYEES:											
	TOTAL.....DO..	83 229	67 477	67 038	439	15 752	14 951	801	81 989	1 240	332	(D)
	PAYROLL.....$1,000..	485 594	395 973	393 311	2 662	89 621	85 551	4 070	478 869	6 732	1 563	(D)
	VALUE ADDED, ADJUSTED.....DO..	804 812	645 795	640 480	4 715	159 617	151 169	8 448	791 649	13 163	2 929	(D)
	VALUE OF SHIPMENTS.....DO..	2 166 137	1 801 394	1 784 922	16 472	364 743	345 652	19 091	2 130 574	35 563	7 052	(D)
2654	SANITARY FOOD CONTAINERS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	186	125	125	-	61	50	11	175	11	8	3
	WITH 20 EMP. OR MORE....DO..	144	117	117	-	27	26	1	143	1	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	32 879	30 782	30 782	-	2 097	1 991	106	32 773	106	83	23
	PAYROLL.....$1,000..	182 745	172 675	172 675	-	10 070	9 612	458	182 287	458	332	126
	VALUE ADDED, ADJUSTED.....DO..	402 211	382 194	382 194	-	20 017	18 868	1 149	401 062	1 149	648	501
	VALUE OF SHIPMENTS.....DO..	905 931	861 239	861 239	-	44 692	42 154	2 538	903 393	2 538	1 259	1 279
2655	FIBER CANS, TUBES, DRUMS, ETC.											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	246	113	112	1	133	100	33	212	34	25	9
	WITH 20 EMP. OR MORE....DO..	137	88	87	1	49	47	2	134	3	2	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	13 188	9 517	(D)	(D)	3 671	(D)	(D)	12 961	227	182	45
	PAYROLL.....$1,000..	67 488	51 771	(D)	(D)	15 717	(D)	(D)	66 562	926	738	188
	VALUE ADDED, ADJUSTED.....DO..	126 196	100 930	(D)	(D)	25 266	(D)	(D)	124 277	1 919	1 326	593
	VALUE OF SHIPMENTS.....DO..	260 257	214 882	(D)	(D)	45 375	(D)	(D)	256 826	3 431	2 592	839
2661	BUILDING PAPER AND BOARD MILLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	83	74	74	-	9	7	2	81	2	1	1
	WITH 20 EMP. OR MORE....DO..	77	71	71	-	6	6	-	77	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 874	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	PAYROLL.....$1,000..	69 637	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	153 103	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	281 564	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies				Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership	Corporate	Total[2]	Individual	Partnership
27	PRINTING AND PUBLISHING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	38 090	2 451	2 315	136	35 639	16 795	18 844	19 110	18 980	14 483	4 037
	WITH 20 EMP. OR MORE..DO..	7 215	1 768	1 723	45	5 447	4 928	519	6 651	564	206	272
	ALL EMPLOYEES:											
	TOTAL.....DO..	913 243	438 362	435 065	3 297	474 881	389 950	84 931	825 015	88 228	53 860	27 717
	PAYROLL.....$1,000..	5 514 816	2 847 134	2 830 813	16 321	2 667 682	2 292 862	374 820	5 123 675	391 141	230 929	127 046
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	559 843	244 822	242 965	1 857	315 021	254 338	60 683	497 303	62 540	39 209	19 930
	MAN-HOURS.....1,000..	1 083 179	465 056	461 402	3 654	618 123	497 531	120 592	958 933	124 246	78 523	39 180
	WAGES.....$1,000..	3 190 988	1 500 813	1 491 452	9 360	1 690 175	1 418 993	271 182	2 910 446	280 542	170 238	93 395
	VALUE ADDED, ADJUSTED...DO..	10 476 433	5 855 793	5 823 431	32 362	4 620 640	3 895 176	725 464	9 718 607	757 826	439 535	259 400
	CAPITAL EXPEND., NEW[3]...DO..	463 904	227 856	226 542	1 314	236 048	189 752	46 296	416 294	47 610	31 091	14 020
2711	NEWSPAPERS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	8 331	630	586	44	7 701	3 182	4 519	3 768	4 563	3 365	1 089
	WITH 20 EMP. OR MORE....DO..	1 865	486	471	15	1 379	1 225	154	1 696	169	64	87
	ALL EMPLOYEES:											
	TOTAL.....DO..	306 439	169 079	167 739	1 340	137 360	112 186	25 174	279 925	26 514	15 829	9 049
	PAYROLL.....$1,000..	1 784 570	1 107 308	1 100 718	6 590	677 262	583 178	94 084	1 683 896	100 674	56 882	35 781
	VALUE ADDED, ADJUSTED.....DO..	3 201 872	1 994 460	1 980 877	13 583	1 207 412	1 029 827	177 585	3 010 704	191 168	104 365	71 147
	VALUE OF SHIPMENTS.....DO..	4 483 592	2 862 215	2 844 792	17 423	1 621 377	1 367 897	253 480	4 212 689	270 903	151 985	97 096
2721	PERIODICALS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	2 630	226	214	12	2 404	1 478	926	1 692	938	666	151
	WITH 20 EMP. OR MORE....DO..	402	137	134	3	265	230	35	364	38	4	13
	ALL EMPLOYEES:											
	TOTAL.....DO..	67 730	40 060	39 849	211	27 670	23 077	4 593	62 926	4 804	1 887	929
	PAYROLL.....$1,000..	461 124	293 146	292 089	1 057	167 978	145 757	22 221	437 846	23 278	9 149	4 576
	VALUE ADDED, ADJUSTED.....DO..	1 349 030	969 449	967 026	2 423	379 581	331 055	48 526	1 298 081	50 949	21 625	12 773
	VALUE OF SHIPMENTS.....DO..	2 295 716	1 718 827	1 715 024	3 803	576 889	503 737	73 152	2 218 761	76 955	33 373	18 639
2731	BOOKS, PUBLISHING AND PRINTING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	993	155	151	4	838	574	264	725	268	179	56
	WITH 20 EMP. OR MORE....DO..	256	107	105	2	149	136	13	241	15	4	6
	ALL EMPLOYEES:											
	TOTAL.....DO..	46 812	30 551	30 284	267	16 261	14 911	1 350	45 195	1 617	662	478
	PAYROLL.....$1,000..	280 664	190 205	189 047	1 158	90 459	85 085	5 374	274 132	6 532	2 542	2 144
	VALUE ADDED, ADJUSTED.....DO..	995 736	737 445	733 171	4 274	258 291	240 746	17 545	973 917	21 819	6 396	8 979
	VALUE OF SHIPMENTS.....DO..	1 534 632	1 093 437	1 086 389	7 048	441 195	413 994	27 201	1 500 383	34 249	10 048	14 671
2732	BOOK PRINTING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	683	70	69	1	613	402	211	471	212	159	46
	WITH 20 EMP. OR MORE....DO..	275	62	61	1	213	192	21	253	22	9	10
	ALL EMPLOYEES:											
	TOTAL.....DO..	36 101	20 012	(D)	(D)	16 089	(D)	(D)	34 268	1 833	879	647
	PAYROLL.....$1,000..	214 175	116 697	(D)	(D)	97 478	(D)	(D)	204 851	9 324	4 407	3 541
	VALUE ADDED, ADJUSTED.....DO..	358 294	195 290	(D)	(D)	163 004	(D)	(D)	341 689	16 605	8 132	6 547
	VALUE OF SHIPMENTS.....DO..	546 587	294 867	(D)	(D)	251 720	(D)	(D)	520 081	26 506	13 280	9 983
2741	MISCELLANEOUS PUBLISHING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 374	139	135	4	1 235	756	479	891	483	381	83
	WITH 20 EMP. OR MORE....DO..	177	67	66	1	110	93	17	159	18	6	10
	ALL EMPLOYEES:											
	TOTAL.....DO..	22 551	12 781	12 667	114	9 770	7 686	2 084	20 353	2 198	1 365	638
	PAYROLL.....$1,000..	130 427	80 167	79 866	301	50 260	42 116	8 144	121 982	8 445	5 362	2 389
	VALUE ADDED, ADJUSTED.....DO..	252 932	161 673	160 777	896	91 259	75 841	15 418	236 618	16 314	9 134	5 467
	VALUE OF SHIPMENTS.....DO..	389 588	244 838	243 614	1 224	144 750	119 694	25 056	363 308	26 280	15 859	7 976
2751	PRINTING, EXCEPT LITHOGRAPHIC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	12 109	465	424	41	11 644	4 361	7 283	4 785	7 324	5 778	1 451
	WITH 20 EMP. OR MORE....DO..	1 404	336	320	16	1 068	963	105	1 283	121	56	48
	ALL EMPLOYEES:											
	TOTAL.....DO..	170 215	69 999	69 049	950	100 216	74 603	25 613	143 652	26 563	18 152	7 420
	PAYROLL.....$1,000..	1 007 469	472 108	467 181	4 927	535 361	424 188	111 173	891 369	116 100	76 855	33 841
	VALUE ADDED, ADJUSTED.....DO..	1 578 275	700 748	692 940	7 808	877 527	660 119	217 408	1 353 059	225 216	149 943	67 476
	VALUE OF SHIPMENTS.....DO..	2 645 051	1 220 210	1 207 263	12 947	1 424 841	1 071 334	353 507	2 278 597	366 454	245 404	109 246
2752	PRINTING, LITHOGRAPHIC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	6 822	329	314	15	6 493	3 333	3 160	3 647	3 175	2 457	676
	WITH 20 EMP. OR MORE....DO..	1 339	244	240	4	1 095	1 019	76	1 259	80	30	39
	ALL EMPLOYEES:											
	TOTAL.....DO..	121 072	36 884	36 671	213	84 188	71 326	12 862	107 997	13 075	8 421	4 065
	PAYROLL.....$1,000..	794 353	244 206	243 022	1 184	550 147	483 726	66 421	726 748	67 605	42 541	21 532
	VALUE ADDED, ADJUSTED.....DO..	1 302 046	425 245	423 639	1 606	876 801	745 653	131 148	1 169 292	132 754	83 280	44 590
	VALUE OF SHIPMENTS.....DO..	2 149 651	707 151	704 099	3 052	1 442 500	1 228 665	213 835	1 932 764	216 887	138 198	69 998
2753	ENGRAVING AND PLATE PRINTING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	580	31	29	2	549	282	267	311	269	207	61
	WITH 20 EMP. OR MORE....DO..	105	21	21	-	84	74	10	95	10	6	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	9 022	3 156	(D)	(D)	5 866	(D)	(D)	7 827	1 195	809	(D)
	PAYROLL.....$1,000..	50 703	19 255	(D)	(D)	31 448	(D)	(D)	45 077	5 626	3 864	(D)
	VALUE ADDED, ADJUSTED.....DO..	80 748	31 210	(D)	(D)	49 538	(D)	(D)	70 659	10 089	6 645	(D)
	VALUE OF SHIPMENTS.....DO..	111 138	40 425	(D)	(D)	70 713	(D)	(D)	96 637	14 501	9 596	(D)

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
27	PRINTING AND PUBLISHING--CONTINUED											
2761	MANIFOLD BUSINESS FORMS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	502	111	110	1	391	257	134	367	135	104	30
	WITH 20 EMP. OR MORE....DO..	250	98	98	-	152	139	13	237	13	5	8
	ALL EMPLOYEES:											
	TOTAL.....DO..	28 796	17 274	(D)	(D)	11 522	(D)	(D)	27 670	1 126	675	(D)
	PAYROLL.....$1,000..	173 238	106 416	(D)	(D)	66 822	(D)	(D)	167 915	5 323	3 081	(D)
	VALUE ADDED, ADJUSTED.....DO..	377 710	262 112	(D)	(D)	115 598	(D)	(D)	367 217	10 493	5 581	(D)
	VALUE OF SHIPMENTS.....DO..	637 673	436 263	(D)	(D)	201 410	(D)	(D)	620 237	17 436	9 796	(D)
2771	GREETING CARD MANUFACTURING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	257	41	41	-	216	124	92	165	92	72	20
	WITH 20 EMP. OR MORE....DO..	93	34	34	-	59	53	6	87	6	3	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	21 535	17 278	17 278	-	4 257	3 796	461	21 074	461	309	152
	PAYROLL.....$1,000..	105 600	84 919	84 919	-	20 681	18 757	1 924	103 676	1 924	1 034	890
	VALUE ADDED, ADJUSTED.....DO..	204 608	164 443	164 443	-	40 165	36 132	4 033	200 575	4 033	2 245	1 788
	VALUE OF SHIPMENTS.....DO..	345 961	275 453	275 453	-	70 508	63 688	6 820	339 141	6 820	3 825	2 995
2782	BLANKBOOKS; LOOSELEAF BINDERS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	410	61	60	1	349	202	147	262	148	107	37
	WITH 20 EMP. OR MORE....DO..	158	52	52	-	106	99	7	151	7	2	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	17 899	9 829	(D)	(D)	8 070	(D)	(D)	16 997	902	477	348
	PAYROLL.....$1,000..	91 197	52 677	(D)	(D)	38 520	(D)	(D)	87 778	3 419	1 880	1 269
	VALUE ADDED, ADJUSTED.....DO..	168 465	99 698	(D)	(D)	68 767	(D)	(D)	161 717	6 748	3 768	2 656
	VALUE OF SHIPMENTS.....DO..	268 219	153 199	(D)	(D)	115 020	(D)	(D)	256 887	11 332	6 356	4 351
2789	BOOKBINDING AND RELATED WORK											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 043	35	33	2	1 008	516	492	549	494	360	125
	WITH 20 EMP. OR MORE....DO..	311	27	25	2	284	251	33	276	35	12	20
	ALL EMPLOYEES:											
	TOTAL.....DO..	24 338	3 727	(D)	(D)	20 611	(D)	(D)	20 895	3 443	1 873	1 462
	PAYROLL.....$1,000..	114 977	18 922	(D)	(D)	96 055	(D)	(D)	100 565	14 412	7 559	6 434
	VALUE ADDED, ADJUSTED.....DO..	172 298	27 278	(D)	(D)	145 020	(D)	(D)	147 828	24 470	12 558	11 331
	VALUE OF SHIPMENTS.....DO..	228 477	41 823	(D)	(D)	186 654	(D)	(D)	198 044	30 433	15 885	13 819
2791	TYPESETTING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 289	62	59	3	1 227	667	560	726	563	426	125
	WITH 20 EMP. OR MORE....DO..	282	41	41	-	241	222	19	263	19	2	14
	ALL EMPLOYEES:											
	TOTAL.....DO..	20 997	3 569	3 541	28	17 428	14 617	2 811	18 158	2 839	1 543	1 126
	PAYROLL.....$1,000..	147 286	25 920	25 722	198	121 366	104 204	17 162	129 926	17 360	9 215	6 887
	VALUE ADDED, ADJUSTED.....DO..	205 450	34 485	34 139	346	170 965	143 123	27 842	177 262	28 188	15 249	11 173
	VALUE OF SHIPMENTS.....DO..	241 014	41 961	41 563	398	199 053	166 582	32 471	208 145	32 869	18 212	12 753
2793	PHOTOENGRAVING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	883	60	56	4	823	545	278	601	282	198	77
	WITH 20 EMP. OR MORE....DO..	218	33	32	1	185	177	8	209	9	2	5
	ALL EMPLOYEES:											
	TOTAL.....DO..	14 620	2 250	2 206	44	12 370	10 942	1 428	13 148	1 472	861	523
	PAYROLL.....$1,000..	119 743	19 207	18 883	324	100 536	90 983	9 553	109 866	9 877	5 791	3 383
	VALUE ADDED, ADJUSTED.....DO..	171 796	27 596	27 015	581	144 200	127 597	16 603	154 612	17 184	9 542	6 627
	VALUE OF SHIPMENTS.....DO..	212 377	36 006	35 297	709	176 371	155 834	20 537	191 131	21 246	11 905	8 075
2794	ELECTROTYPING AND STEREOTYPING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	184	36	34	2	148	116	32	150	34	24	10
	WITH 20 EMP. OR MORE....DO..	80	23	23	-	57	55	2	78	2	1	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	5 116	1 913	(D)	(D)	3 203	(D)	(D)	4 930	186	118	68
	PAYROLL.....$1,000..	39 290	15 981	(D)	(D)	23 309	(D)	(D)	38 048	1 242	767	475
	VALUE ADDED, ADJUSTED.....DO..	57 173	24 661	(D)	(D)	32 512	(D)	(D)	55 377	1 796	1 072	724
	VALUE OF SHIPMENTS.....DO..	76 068	33 481	(D)	(D)	42 587	(D)	(D)	73 693	2 375	1 365	1 010
28	CHEMICALS AND ALLIED PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	11 993	3 958	3 788	170	8 035	5 751	2 284	9 539	2 454	1 835	451
	WITH 20 EMP. OR MORE..DO..	3 985	2 617	2 522	95	1 368	1 298	70	3 820	165	35	41
	ALL EMPLOYEES:											
	TOTAL.....DO..	737 414	634 022	626 296	7 726	103 392	92 572	10 820	718 868	18 546	8 215	3 984
	PAYROLL.....$1,000..	496 984	4 373 861	4 333 745	40 116	595 982	545 368	50 614	4 879 113	90 730	39 267	19 154
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	474 141	411 315	405 643	5 672	62 826	55 603	7 223	461 246	12 895	5 518	2 568
	MAN-HOURS.....1,000..	963 361	836 328	824 476	11 852	127 033	112 390	14 643	936 866	26 495	11 203	5 236
	WAGES.....$1,000..	2 779 938	2 496 612	2 470 054	26 558	283 326	253 881	29 445	2 723 935	56 003	23 427	10 606
	VALUE ADDED, ADJUSTED...DO..	17 586 138	16 050 546	15 904 065	146 481	1 535 592	1 384 159	151 433	17 288 224	297 914	113 468	54 282
	CAPITAL EXPEND., NEW[3]...DO..	1 545 689	1 420 470	1 390 823	29 647	125 219	98 786	26 433	1 489 609	56 080	14 115	2 368
2812	ALKALIES AND CHLORINE											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	38	38	38	-	-	-	-	38	-	-	-
	WITH 20 EMP. OR MORE....DO..	37	37	37	-	-	-	-	37	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	19 652	19 652	19 652	-	-	-	-	19 652	-	-	-
	PAYROLL.....$1,000..	138 156	138 156	138 156	-	-	-	-	138 156	-	-	-
	VALUE ADDED, ADJUSTED.....DO..	389 243	389 243	389 243	-	-	-	-	389 243	-	-	-
	VALUE OF SHIPMENTS.....DO..	652 120	652 120	652 120	-	-	-	-	652 120	-	-	-

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
28	CHEMICALS AND ALLIED PRODUCTS--CONTINUED											
2813	INDUSTRIAL GASES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	456	391	389	2	65	51	14	440	16	13	1
	WITH 20 EMP. OR MORE....DO..	146	134	134	-	12	12	-	146	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	9 809	9 072	(D)	(D)	737	(D)	(D)	9 750	59	44	(D)
	PAYROLL.....$1,000..	66 551	62 050	(D)	(D)	4 501	(D)	(D)	66 207	344	255	(D)
	VALUE ADDED, ADJUSTED.....DO..	260 182	249 989	(D)	(D)	10 193	(D)	(D)	259 113	1 069	867	(D)
	VALUE OF SHIPMENTS.....DO..	425 388	409 189	(D)	(D)	16 199	(D)	(D)	423 620	1 768	1 476	(D)
2814	CYCLIC (COAL TAR) CRUDES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	36	33	33	-	3	2	1	35	1	1	-
	WITH 20 EMP. OR MORE....DO..	17	16	16	-	1	1	-	17	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	1 636	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	PAYROLL.....$1,000..	11 009	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	VALUE ADDED, ADJUSTED.....DO..	35 103	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	VALUE OF SHIPMENTS.....DO..	105 172	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
2815	INTERMEDIATE COAL TAR PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	141	89	88	1	52	42	10	130	11	9	2
	WITH 20 EMP. OR MORE....DO..	84	70	69	1	14	14	-	83	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	26 089	24 449	(D)	(D)	1 515	(D)	(D)	25 982	107	(D)	(D)
	PAYROLL.....$1,000..	190 849	179 425	(D)	(D)	10 506	(D)	(D)	190 075	774	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	570 234	526 326	(D)	(D)	40 259	(D)	(D)	568 250	1 984	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	1 107 583	1 019 712	(D)	(D)	78 113	(D)	(D)	1 103 926	3 657	(D)	(D)
2816	INORGANIC PIGMENTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	96	53	52	1	43	35	8	87	9	6	2
	WITH 20 EMP. OR MORE....DO..	49	41	41	-	8	8	-	49	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 544	10 974	(D)	(D)	570	(D)	(D)	11 493	51	34	(D)
	PAYROLL.....$1,000..	76 372	73 092	(D)	(D)	3 280	(D)	(D)	76 137	235	137	(D)
	VALUE ADDED, ADJUSTED.....DO..	286 407	277 463	(D)	(D)	8 944	(D)	(D)	285 521	886	480	(D)
	VALUE OF SHIPMENTS.....DO..	484 768	463 938	(D)	(D)	20 830	(D)	(D)	482 571	2 197	1 234	(D)
2818	ORGANIC CHEMICALS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	464	238	233	5	226	166	60	399	65	57	6
	WITH 20 EMP. OR MORE....DO..	241	195	192	3	46	45	1	237	4	3	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	85 492	82 237	82 144	93	3 255	3 078	177	85 222	270	210	(D)
	PAYROLL.....$1,000..	677 252	654 341	653 683	658	22 911	21 774	1 137	675 457	1 795	1 404	(D)
	VALUE ADDED, ADJUSTED.....DO..	2 727 450	2 658 784	2 651 138	7 646	68 666	64 623	4 043	2 715 761	11 689	10 389	(D)
	VALUE OF SHIPMENTS.....DO..	4 840 176	4 701 129	4 687 313	13 816	139 047	130 873	8 174	4 818 186	21 990	19 310	(D)
2819	INORGANIC CHEMICALS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	674	406	396	10	268	176	92	572	102	79	10
	WITH 20 EMP. OR MORE....DO..	323	277	268	9	46	39	7	307	16	5	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	82 430	78 473	77 276	1 197	3 957	3 190	767	80 466	1 964	347	13
	PAYROLL.....$1,000..	603 036	577 833	569 979	7 854	25 203	20 016	5 187	589 995	13 041	2 121	74
	VALUE ADDED, ADJUSTED.....DO..	1 902 563	1 831 592	1 789 222	42 370	70 971	53 367	17 604	1 842 589	59 974	6 402	347
	VALUE OF SHIPMENTS.....DO..	3 493 870	3 336 071	3 269 404	66 667	157 799	124 713	33 086	3 394 117	99 753	18 334	1 088
2821	PLASTICS MATERIALS AND RESINS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	509	246	244	2	263	199	64	443	66	50	13
	WITH 20 EMP. OR MORE....DO..	256	177	176	1	79	72	7	248	8	1	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	61 366	54 752	(D)	(D)	6 614	(D)	(D)	60 794	572	265	(D)
	PAYROLL.....$1,000..	437 566	395 955	(D)	(D)	41 611	(D)	(D)	434 797	2 769	1 279	(D)
	VALUE ADDED, ADJUSTED.....DO..	1 202 349	1 114 890	(D)	(D)	87 459	(D)	(D)	1 194 176	8 173	4 323	(D)
	VALUE OF SHIPMENTS.....DO..	2 571 492	2 351 978	(D)	(D)	219 514	(D)	(D)	2 550 201	21 291	10 292	(D)
2822	SYNTHETIC RUBBER											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	24	24	24	-	-	-	-	24	-	-	-
	WITH 20 EMP. OR MORE....DO..	24	24	24	-	-	-	-	24	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 840	11 840	11 840	-	-	-	-	11 840	-	-	-
	PAYROLL.....$1,000..	93 507	93 507	93 507	-	-	-	-	93 507	-	-	-
	VALUE ADDED, ADJUSTED.....DO..	329 520	329 520	329 520	-	-	-	-	329 520	-	-	-
	VALUE OF SHIPMENTS.....DO..	763 891	763 891	763 891	-	-	-	-	763 891	-	-	-
2823	CELLULOSIC MAN-MADE FIBERS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	19	19	19	-	-	-	-	19	-	-	-
	WITH 20 EMP. OR MORE....DO..	19	19	19	-	-	-	-	19	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	30 086	30 086	30 086	-	-	-	-	30 086	-	-	-
	PAYROLL.....$1,000..	167 028	167 028	167 028	-	-	-	-	167 028	-	-	-
	VALUE ADDED, ADJUSTED.....DO..	411 529	411 529	411 529	-	-	-	-	411 529	-	-	-
	VALUE OF SHIPMENTS.....DO..	731 815	731 815	731 815	-	-	-	-	731 815	-	-	-
2824	ORGANIC FIBERS, NONCELLULOSIC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	25	23	23	-	2	1	1	24	1	1	-
	WITH 20 EMP. OR MORE....DO..	24	23	23	-	1	1	-	24	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	41 421	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	PAYROLL.....$1,000..	275 809	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	VALUE ADDED, ADJUSTED.....DO..	922 001	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	VALUE OF SHIPMENTS.....DO..	1 403 178	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies				Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership	Corporate	Total[2]	Individual	Partnership
28	CHEMICALS AND ALLIED PRODUCTS--CONTINUED											
2831	BIOLOGICAL PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	113	35	34	1	78	60	18	94	19	16	2
	WITH 20 EMP. OR MORE....DO..	40	28	27	1	12	12	-	39	1	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	5 789	4 666	(D)	(D)	1 123	(D)	(D)	5 306	483	474	(D)
	PAYROLL.....$1,000..	33 813	27 619	(D)	(D)	6 194	(D)	(D)	30 529	3 284	3 249	(D)
	VALUE ADDED, ADJUSTED....DO..	60 377	47 041	(D)	(D)	13 336	(D)	(D)	58 529	1 848	1 759	(D)
	VALUE OF SHIPMENTS.....DO..	95 744	75 427	(D)	(D)	20 317	(D)	(D)	91 211	4 533	4 392	(D)
2833	MEDICINALS AND BOTANICALS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	138	45	43	2	93	79	14	122	16	12	3
	WITH 20 EMP. OR MORE....DO..	42	29	28	1	13	13	-	41	1	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	8 128	7 158	(D)	(D)	970	(D)	(D)	7 827	301	294	(D)
	PAYROLL.....$1,000..	59 324	53 353	(D)	(D)	5 971	(D)	(D)	57 257	2 067	2 040	(D)
	VALUE ADDED, ADJUSTED....DO..	151 297	136 715	(D)	(D)	14 582	(D)	(D)	145 929	5 368	5 310	(D)
	VALUE OF SHIPMENTS.....DO..	305 793	275 132	(D)	(D)	30 661	(D)	(D)	296 372	9 421	9 322	(D)
2834	PHARMACEUTICAL PREPARATIONS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 011	203	195	8	808	597	211	792	219	165	46
	WITH 20 EMP. OR MORE....DO..	319	169	165	4	150	145	5	310	9	1	7
	ALL EMPLOYEES:											
	TOTAL.....DO..	85 084	73 825	73 106	719	11 259	10 386	873	83 492	1 592	466	748
	PAYROLL.....$1,000..	580 638	520 737	517 540	3 197	59 901	56 277	3 624	573 817	6 821	1 763	3 786
	VALUE ADDED, ADJUSTED....DO..	2 595 657	2 444 255	2 432 204	12 051	151 402	139 984	11 418	2 572 188	23 469	5 279	10 764
	VALUE OF SHIPMENTS.....DO..	3 314 323	3 071 040	3 053 055	17 985	243 283	225 605	17 678	3 278 660	35 663	8 809	15 362
2841	SOAP AND OTHER DETERGENTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	704	129	128	1	575	404	171	532	172	138	31
	WITH 20 EMP. OR MORE....DO..	172	96	96	-	76	70	6	166	6	3	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	30 794	24 748	(D)	(D)	6 046	(D)	(D)	30 085	709	430	266
	PAYROLL.....$1,000..	214 144	178 333	(D)	(D)	35 811	(D)	(D)	210 781	3 363	1 893	1 389
	VALUE ADDED, ADJUSTED....DO..	1 137 425	1 053 920	(D)	(D)	83 505	(D)	(D)	1 127 552	9 873	5 134	4 528
	VALUE OF SHIPMENTS.....DO..	2 127 789	1 945 621	(D)	(D)	182 168	(D)	(D)	2 107 776	20 013	10 811	8 716
2842	POLISHES AND SANITATION GOODS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 101	106	103	3	995	620	375	723	378	317	52
	WITH 20 EMP. OR MORE....DO..	173	67	67	-	106	100	6	167	6	3	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	16 332	7 440	(D)	(D)	8 892	(D)	(D)	14 786	1 546	1 070	271
	PAYROLL.....$1,000..	96 586	47 236	(D)	(D)	49 350	(D)	(D)	90 062	6 524	4 246	1 365
	VALUE ADDED, ADJUSTED....DO..	420 440	297 855	(D)	(D)	122 585	(D)	(D)	401 337	19 103	13 748	3 499
	VALUE OF SHIPMENTS.....DO..	757 179	511 273	(D)	(D)	245 906	(D)	(D)	718 817	38 362	25 978	6 557
2843	SURFACE ACTIVE AGENTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	148	34	34	-	114	91	23	125	23	15	8
	WITH 20 EMP. OR MORE....DO..	59	24	24	-	35	35	-	59	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	4 108	2 360	2 360	-	1 748	1 642	106	4 002	106	63	43
	PAYROLL.....$1,000..	31 893	17 859	17 859	-	14 034	13 274	760	31 133	760	454	306
	VALUE ADDED, ADJUSTED....DO..	75 698	43 576	43 576	-	32 122	29 806	2 316	73 382	2 316	1 281	1 035
	VALUE OF SHIPMENTS.....DO..	177 821	104 282	104 282	-	73 539	67 716	5 823	171 998	5 823	2 969	2 854
2844	TOILET PREPARATIONS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	707	117	114	3	590	435	155	549	158	120	35
	WITH 20 EMP. OR MORE....DO..	183	92	92	-	91	87	4	179	4	1	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	34 338	25 133	25 117	16	9 205	8 616	589	33 733	605	403	159
	PAYROLL.....$1,000..	183 219	139 462	139 399	63	43 757	42 038	1 719	181 437	1 782	1 137	506
	VALUE ADDED, ADJUSTED....DO..	1 232 883	1 034 366	1 034 265	101	198 517	192 874	5 643	1 227 139	5 744	3 987	1 578
	VALUE OF SHIPMENTS.....DO..	1 792 662	1 477 331	1 477 101	230	315 331	304 916	10 415	1 782 017	10 645	6 899	2 663
2851	PAINTS AND ALLIED PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 788	451	438	13	1 337	1 028	309	1 466	322	243	68
	WITH 20 EMP. OR MORE....DO..	654	346	342	4	308	300	8	642	12	4	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	61 267	41 676	41 339	337	19 591	17 820	1 771	59 159	2 108	1 404	319
	PAYROLL.....$1,000..	401 240	277 326	275 359	1 967	123 914	113 916	9 998	389 275	11 965	8 209	1 727
	VALUE ADDED, ADJUSTED....DO..	1 111 681	834 328	829 409	4 919	277 353	248 949	28 404	1 078 358	33 323	23 781	5 070
	VALUE OF SHIPMENTS.....DO..	2 456 361	1 803 579	1 792 486	11 093	652 782	582 174	70 608	2 374 660	81 701	55 955	13 377
2861	GUM AND WOOD CHEMICALS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	246	51	44	7	195	96	99	140	106	79	25
	WITH 20 EMP. OR MORE....DO..	53	29	26	3	24	19	5	45	8	1	6
	ALL EMPLOYEES:											
	TOTAL.....DO..	6 787	4 995	4 756	239	1 792	1 367	425	6 123	664	271	(D)
	PAYROLL.....$1,000..	32 682	26 737	25 822	915	5 945	4 841	1 104	30 663	2 019	650	(D)
	VALUE ADDED, ADJUSTED....DO..	100 329	87 760	86 188	1 581	12 560	9 607	2 953	95 795	4 534	1 809	(D)
	VALUE OF SHIPMENTS.....DO..	212 850	179 814	172 852	6 962	33 036	24 854	8 182	197 706	15 144	4 317	(D)
2871	FERTILIZERS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	281	191	161	30	90	67	23	228	53	13	10
	WITH 20 EMP. OR MORE....DO..	199	173	148	25	26	23	3	171	28	3	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	19 992	18 378	16 298	2 080	1 614	1 462	152	17 760	2 232	364	178
	PAYROLL.....$1,000..	102 294	95 386	85 426	9 960	6 908	6 344	564	91 770	10 524	2 013	690
	VALUE ADDED, ADJUSTED....DO..	287 800	268 087	229 376	38 711	19 713	18 677	1 036	248 053	39 747	792	1 398
	VALUE OF SHIPMENTS.....DO..	869 213	803 684	693 309	110 375	65 529	61 039	4 490	754 348	114 865	7 606	5 439

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
28	CHEMICALS AND ALLIED PRODUCTS--CONTINUED											
2872	FERTILIZERS, MIXING ONLY											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	733	291	231	60	442	305	137	536	197	107	29
	WITH 20 EMP. OR MORE....DO..	232	150	114	36	82	75	7	189	43	3	5
	ALL EMPLOYEES:											
	TOTAL.....DO..	13 752	8 012	6 498	1 514	5 740	4 746	994	11 244	2 508	667	342
	PAYROLL.....$1,000..	59 390	35 167	28 474	6 693	24 223	20 707	3 516	49 181	10 209	2 116	1 249
	VALUE ADDED, ADJUSTED.....DO..	164 140	104 932	87 589	17 343	59 208	50 859	8 349	138 448	25 692	5 812	2 924
	VALUE OF SHIPMENTS.....DO..	623 070	409 148	320 862	88 286	213 922	178 388	35 534	499 250	123 820	22 711	14 719
2879	AGRICULTURAL CHEMICALS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	340	157	148	9	183	138	45	286	54	36	12
	WITH 20 EMP. OR MORE....DO..	112	72	68	4	40	37	3	105	7	3	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	9 090	6 427	6 096	331	2 663	2 332	331	8 428	662	291	281
	PAYROLL.....$1,000..	51 465	36 556	35 378	1 178	14 909	13 517	1 392	48 895	2 570	1 039	1 112
	VALUE ADDED, ADJUSTED.....DO..	176 333	139 635	132 382	7 253	36 698	31 454	5 244	163 836	12 497	5 823	4 779
	VALUE OF SHIPMENTS.....DO..	476 661	368 988	346 055	22 933	107 673	93 414	14 259	439 469	37 192	17 046	11 411
2891	GLUE AND GELATIN											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	368	135	132	3	233	180	53	312	56	37	15
	WITH 20 EMP. OR MORE....DO..	104	70	68	2	34	33	1	101	3	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	8 521	6 094	5 915	179	2 427	2 274	153	8 189	332	69	70
	PAYROLL.....$1,000..	54 869	39 009	38 351	658	15 860	14 992	868	53 343	1 526	362	422
	VALUE ADDED, ADJUSTED.....DO..	147 006	114 106	110 590	3 516	32 900	30 856	2 044	141 446	5 560	900	915
	VALUE OF SHIPMENTS.....DO..	351 680	271 711	266 229	5 482	79 969	74 369	5 600	340 598	11 082	2 312	2 350
2892	EXPLOSIVES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	68	43	42	1	25	18	7	60	8	4	3
	WITH 20 EMP. OR MORE....DO..	47	38	38	-	9	8	1	46	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	14 814	13 943	(D)	(D)	871	(D)	(D)	14 732	82	24	(D)
	PAYROLL.....$1,000..	91 613	86 816	(D)	(D)	4 797	(D)	(D)	91 153	460	119	(D)
	VALUE ADDED, ADJUSTED.....DO..	165 733	157 365	(D)	(D)	8 368	(D)	(D)	165 009	724	233	(D)
	VALUE OF SHIPMENTS.....DO..	283 298	263 637	(D)	(D)	19 661	(D)	(D)	281 947	1 351	381	(D)
2893	PRINTING INK											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	348	165	162	3	183	137	46	299	49	31	17
	WITH 20 EMP. OR MORE....DO..	103	72	71	1	31	30	1	101	2	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	8 455	6 356	6 235	121	2 099	1 923	176	8 158	297	94	(D)
	PAYROLL.....$1,000..	55 943	40 871	40 030	841	15 072	13 934	1 138	53 964	1 979	604	(D)
	VALUE ADDED, ADJUSTED.....DO..	125 138	95 750	94 133	1 617	29 388	26 463	2 925	120 596	4 542	1 458	(D)
	VALUE OF SHIPMENTS.....DO..	268 012	211 813	207 967	3 846	56 199	50 195	6 004	258 162	9 850	3 212	(D)
2895	CARBON BLACK											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	33	33	33	-	-	-	-	33	-	-	-
	WITH 20 EMP. OR MORE....DO..	31	31	31	-	-	-	-	31	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	3 010	3 010	3 010	-	-	-	-	3 010	-	-	-
	PAYROLL.....$1,000..	20 669	20 669	20 669	-	-	-	-	20 669	-	-	-
	VALUE ADDED, ADJUSTED.....DO..	91 752	91 752	91 752	-	-	-	-	91 752	-	-	-
	VALUE OF SHIPMENTS.....DO..	149 122	149 122	149 122	-	-	-	-	149 122	-	-	-
2899	CHEMICAL PREPARATIONS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 384	212	207	5	1 172	824	348	1 031	353	286	61
	WITH 20 EMP. OR MORE....DO..	242	118	118	-	124	119	5	237	5	2	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	25 788	15 223	15 205	18	10 565	9 310	1 255	24 515	1 273	878	360
	PAYROLL.....$1,000..	162 926	102 498	102 415	83	60 428	54 719	5 709	157 134	5 792	3 846	1 785
	VALUE ADDED, ADJUSTED.....DO..	505 868	349 159	348 641	518	156 709	137 724	18 985	486 365	19 503	13 005	5 833
	VALUE OF SHIPMENTS.....DO..	931 691	635 172	634 469	703	296 519	255 413	41 106	889 882	41 809	30 435	10 408
29	PETROLEUM AND COAL PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 839	867	848	19	972	726	246	1 574	265	190	57
	WITH 20 EMP. OR MORE..DO..	689	479	469	10	210	193	17	662	27	8	8
	ALL EMPLOYEES:											
	TOTAL.....DO..	153 486	137 684	136 111	1 573	15 802	14 144	1 658	150 255	3 231	1 023	628
	PAYROLL.....$1,000..	1 133 765	1 031 368	1 020 803	10 565	102 397	93 084	9 313	1 113 887	19 878	5 398	3 966
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	109 448	99 524	98 240	1 284	9 924	8 753	1 171	106 993	2 455	713	465
	MAN-HOURS.....1,000..	216 679	195 268	192 607	2 661	21 411	18 794	2 617	211 401	5 278	1 629	1 011
	WAGES.....$1,000..	745 123	688 993	680 587	8 406	56 130	50 056	6 074	730 643	14 480	3 633	2 547
	VALUE ADDED, ADJUSTED...DO..	3 713 231	3 448 099	3 406 982	41 117	265 132	239 765	25 367	3 646 747	66 484	14 841	12 427
	CAPITAL EXPEND., NEW[3]...DO..	413 681	393 231	389 123	4 108	20 450	17 327	3 123	406 450	7 231	2 251	962
2911	PETROLEUM REFINING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	427	275	266	9	152	97	55	363	64	44	12
	WITH 20 EMP. OR MORE....DO..	297	258	249	9	39	36	3	285	12	2	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	119 297	114 966	113 468	1 498	4 331	3 976	355	117 444	1 853	245	171
	PAYROLL.....$1,000..	922 319	890 887	880 810	10 077	31 432	29 441	1 991	910 251	12 068	1 399	909
	VALUE ADDED, ADJUSTED.....DO..	3 137 603	3 041 361	3 002 486	38 875	96 242	90 799	5 443	3 093 285	44 318	4 103	3 389
	VALUE OF SHIPMENTS.....DO..	16 496 896	16 161 854	15 975 248	186 606	335 042	319 211	15 831	16 294 459	202 437	10 525	13 169

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies				Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership	Corporate	Total[2]	Individual	Partnership
29	PETROLEUM AND COAL PRODUCTS--CONTINUED											
2951	PAVING MIXTURES AND BLOCKS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	762	332	328	4	430	348	82	676	86	63	20
	WITH 20 EMP. OR MORE....DO..	127	41	41	-	86	78	8	119	8	4	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	9 680	4 137	4 117	20	5 543	4 814	729	8 931	749	460	250
	PAYROLL.....$1,000..	62 065	27 027	26 911	116	35 038	30 771	4 267	57 682	4 383	2 390	1 831
	VALUE ADDED, ADJUSTED.....DO..	165 584	78 002	77 577	425	87 582	77 163	10 419	154 740	10 844	5 932	4 491
	VALUE OF SHIPMENTS.....DO..	427 460	215 221	214 155	1 066	212 239	188 911	23 328	403 066	24 394	12 613	10 893
2952	ASPHALT FELTS AND COATINGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	230	145	145	-	85	61	24	206	24	18	5
	WITH 20 EMP. OR MORE....DO..	140	113	113	-	27	24	3	137	3	2	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	14 581	12 436	12 436	-	2 145	1 912	233	14 348	233	141	(D)
	PAYROLL.....$1,000..	82 477	71 725	71 725	-	10 752	9 612	1 140	81 337	1 140	680	(D)
	VALUE ADDED, ADJUSTED.....DO..	189 981	166 009	166 009	-	23 972	20 850	3 122	186 859	3 122	2 368	(D)
	VALUE OF SHIPMENTS.....DO..	527 632	471 341	471 341	-	56 291	49 761	6 530	521 102	6 530	4 665	(D)
2992	LUBRICATING OILS AND GREASES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	353	94	88	6	259	194	65	282	71	48	17
	WITH 20 EMP. OR MORE....DO..	108	56	55	1	52	49	3	104	4	-	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	8 433	4 998	4 943	55	3 435	3 148	287	8 091	342	129	159
	PAYROLL.....$1,000..	57 946	34 763	34 391	372	23 183	21 485	1 698	55 876	2 070	740	1 028
	VALUE ADDED, ADJUSTED.....DO..	199 074	147 430	145 613	1 817	51 644	45 611	6 033	191 224	7 850	2 161	4 029
	VALUE OF SHIPMENTS.....DO..	471 229	330 457	323 645	6 812	140 772	125 858	14 914	449 503	21 726	6 043	9 665
2999	PETROLEUM & COAL PRODUCTS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	67	21	21	-	46	26	20	47	20	17	3
	WITH 20 EMP. OR MORE....DO..	17	11	11	-	6	6	-	17	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	1 495	1 147	1 147	-	348	294	54	1 441	54	48	6
	PAYROLL.....$1,000..	8 958	6 966	6 966	-	1 992	1 775	217	8 741	217	189	28
	VALUE ADDED, ADJUSTED.....DO..	20 989	15 297	15 297	-	5 692	5 342	350	20 639	350	277	73
	VALUE OF SHIPMENTS.....DO..	71 525	53 847	53 847	-	17 678	16 627	1 051	70 474	1 051	913	138
30	RUBBER & PLASTIC PRODUCTS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	5 728	1 139	1 119	20	4 589	3 246	1 343	4 365	1 363	1 088	248
	WITH 20 EMP. OR MORE..DO..	2 449	953	939	14	1 496	1 409	87	2 348	101	41	49
	ALL EMPLOYEES:											
	TOTAL.....DO..	414 959	293 577	292 517	1 060	121 382	112 363	9 019	404 880	10 079	6 208	3 012
	PAYROLL.....$1,000..	2 364 033	1 782 768	1 777 242	5 526	581 265	544 375	36 890	2 321 617	42 416	25 072	12 177
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	328 785	228 905	228 109	796	99 880	92 378	7 502	320 487	8 298	5 157	2 544
	MAN-HOURS.....1,000..	658 464	460 300	458 695	1 605	198 164	183 326	14 838	642 021	16 443	10 172	5 038
	WAGES.....$1,000..	1 672 376	1 268 371	1 264 913	3 458	404 005	375 968	28 037	1 640 881	31 495	18 799	9 539
	VALUE ADDED, ADJUSTED...DO..	4 653 953	3 539 017	3 531 004	8 013	1 114 936	1 026 871	88 065	4 557 875	96 078	58 200	30 813
	CAPITAL EXPEND., NEW[3]...DO..	343 466	264 139	263 849	290	79 327	72 909	6 418	336 758	6 708	4 585	1 684
3011	TIRES AND INNER TUBES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	155	78	77	1	77	50	27	127	28	19	8
	WITH 20 EMP. OR MORE....DO..	96	71	71	-	25	23	2	94	2	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	85 259	82 523	(D)	(D)	2 736	(D)	(D)	85 084	175	54	(D)
	PAYROLL.....$1,000..	621 741	605 353	(D)	(D)	16 388	(D)	(D)	620 822	919	231	(D)
	VALUE ADDED, ADJUSTED.....DO..	1 321 712	1 288 464	(D)	(D)	33 248	(D)	(D)	1 319 811	1 901	532	(D)
	VALUE OF SHIPMENTS.....DO..	2 949 673	2 881 671	(D)	(D)	68 002	(D)	(D)	2 945 112	4 561	1 257	(D)
3021	RUBBER FOOTWEAR											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	53	28	28	-	25	21	4	49	4	4	-
	WITH 20 EMP. OR MORE....DO..	46	27	27	-	19	19	-	46	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	29 147	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	PAYROLL.....$1,000..	130 361	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	VALUE ADDED, ADJUSTED.....DO..	216 959	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	VALUE OF SHIPMENTS.....DO..	354 239	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
3031	RECLAIMED RUBBER											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	13	12	12	-	1	-	1	12	1	-	1
	WITH 20 EMP. OR MORE....DO..	13	12	12	-	1	-	1	12	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	2 010	(D)	(D)	-	(D)	-	(D)	(D)	(D)	-	(D)
	PAYROLL.....$1,000..	13 598	(D)	(D)	-	(D)	-	(D)	(D)	(D)	-	(D)
	VALUE ADDED, ADJUSTED.....DO..	27 378	(D)	(D)	-	(D)	-	(D)	(D)	(D)	-	(D)
	VALUE OF SHIPMENTS.....DO..	48 879	(D)	(D)	-	(D)	-	(D)	(D)	(D)	-	(D)
3069	RUBBER PRODUCTS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 173	320	312	8	853	612	241	924	249	204	42
	WITH 20 EMP. OR MORE....DO..	620	281	275	6	339	316	23	591	29	13	14
	ALL EMPLOYEES:											
	TOTAL.....DO..	132 228	101 355	101 037	318	30 873	29 154	1 719	130 191	2 037	1 318	652
	PAYROLL.....$1,000..	760 761	602 177	600 708	1 469	158 584	151 500	7 084	752 208	8 553	5 742	2 578
	VALUE ADDED, ADJUSTED.....DO..	1 427 022	1 133 016	1 129 538	3 478	294 006	274 101	19 905	1 403 639	23 383	15 960	6 775
	VALUE OF SHIPMENTS.....DO..	2 597 999	2 078 914	2 071 038	7 876	519 085	485 856	33 229	2 556 894	41 105	26 646	13 608

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
30	RUBBER & PLASTIC PRODUCTS, NEC--CONTINUED											
3079	PLASTICS PRODUCTS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	4 334	701	690	11	3 633	2 563	1 070	3 253	1 081	861	197
	WITH 20 EMP. OR MORE....DO..	1 674	562	554	8	1 112	1 051	61	1 605	69	28	33
	ALL EMPLOYEES:											
	TOTAL.....DO..	166 315	82 742	82 011	731	83 573	76 489	7 084	158 500	7 815	4 830	2 224
	PAYROLL.....$1,000..	837 572	446 718	442 702	4 016	390 854	362 134	28 720	804 836	32 736	19 077	8 919
	VALUE ADDED, ADJUSTED.....DO..	1 660 882	895 977	891 565	4 412	764 905	699 071	65 834	1 590 636	70 246	41 676	22 638
	VALUE OF SHIPMENTS.....DO..	3 165 440	1 741 818	1 731 867	9 951	1 423 622	1 308 617	115 005	3 040 484	124 956	74 892	37 506
31	LEATHER & LEATHER PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	4 047	709	695	14	3 338	2 073	1 265	2 768	1 279	981	276
	WITH 20 EMP. OR MORE..DO..	2 073	656	645	11	1 417	1 290	127	1 935	138	57	67
	ALL EMPLOYEES:											
	TOTAL.....DO..	327 489	176 958	175 530	1 428	150 531	138 610	11 921	314 140	13 349	6 971	5 028
	PAYROLL.....$1,000..	1 227 824	663 917	659 074	4 843	563 907	524 335	39 572	1 183 409	44 415	22 247	17 171
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	292 339	158 634	157 331	1 303	133 705	123 074	10 631	280 405	11 934	6 154	4 578
	MAN-HOURS.....1,000..	543 094	295 664	293 308	2 356	247 430	227 479	19 951	520 787	22 307	11 659	8 509
	WAGES.....$1,000..	982 096	540 352	536 620	3 732	441 744	408 352	33 392	944 972	37 124	18 581	14 900
	VALUE ADDED, ADJUSTED...DO..	2 078 572	1 187 477	1 177 997	9 480	891 095	818 926	72 169	1 996 923	81 649	41 686	32 908
	CAPITAL EXPEND., NEW....DO..	34 566	20 009	19 874	135	14 557	13 313	1 244	33 187	1 379	838	435
3111	LEATHER TANNING AND FINISHING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	525	96	94	2	429	312	117	406	119	90	27
	WITH 20 EMP. OR MORE....DO..	256	84	83	1	172	160	12	243	13	4	8
	ALL EMPLOYEES:											
	TOTAL.....DO..	31 417	17 830	(D)	(D)	13 587	(D)	(D)	30 007	1 410	591	(D)
	PAYROLL.....$1,000..	163 307	92 310	(D)	(D)	70 997	(D)	(D)	156 712	6 595	2 724	(D)
	VALUE ADDED, ADJUSTED.....DO..	273 092	147 771	(D)	(D)	125 321	(D)	(D)	260 707	12 385	5 550	(D)
	VALUE OF SHIPMENTS.....DO..	758 408	441 906	(D)	(D)	316 502	(D)	(D)	729 262	29 146	10 969	(D)
3121	INDUSTRIAL LEATHER BELTING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	83	13	12	1	70	45	25	57	26	16	9
	WITH 20 EMP. OR MORE....DO..	23	10	9	1	13	13	-	22	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	2 870	2 100	(D)	(D)	770	(D)	(D)	2 683	187	64	(D)
	PAYROLL.....$1,000..	15 897	11 812	(D)	(D)	4 085	(D)	(D)	15 000	897	262	(D)
	VALUE ADDED, ADJUSTED.....DO..	32 915	26 349	(D)	(D)	6 566	(D)	(D)	31 770	1 145	623	(D)
	VALUE OF SHIPMENTS.....DO..	51 869	38 410	(D)	(D)	13 459	(D)	(D)	49 405	2 464	1 173	(D)
3131	FOOTWEAR CUT STOCK											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	446	67	64	3	379	243	136	307	139	105	31
	WITH 20 EMP. OR MORE....DO..	204	59	56	3	145	134	11	190	14	3	9
	ALL EMPLOYEES:											
	TOTAL.....DO..	14 339	4 921	4 706	215	9 418	8 329	1 089	13 035	1 304	609	612
	PAYROLL.....$1,000..	53 420	17 661	17 007	654	35 759	32 308	3 451	49 315	4 105	1 772	1 975
	VALUE ADDED, ADJUSTED.....DO..	90 611	31 764	30 616	1 148	58 847	52 272	6 575	82 888	7 723	3 320	4 004
	VALUE OF SHIPMENTS.....DO..	229 253	94 322	91 147	3 175	134 931	118 782	16 149	209 929	19 324	8 633	9 693
3141	SHOES, EXCEPT RUBBER											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 040	394	392	2	646	486	160	878	162	131	26
	WITH 20 EMP. OR MORE....DO..	815	386	385	1	429	408	21	793	22	8	9
	ALL EMPLOYEES:											
	TOTAL.....DO..	201 728	129 056	(D)	(D)	72 672	(D)	(D)	199 208	2 520	1 221	821
	PAYROLL.....$1,000..	713 577	452 826	(D)	(D)	260 751	(D)	(D)	705 816	7 761	3 856	2 254
	VALUE ADDED, ADJUSTED.....DO..	1 214 740	830 042	(D)	(D)	384 698	(D)	(D)	1 200 140	14 600	7 171	5 302
	VALUE OF SHIPMENTS.....DO..	2 249 167	1 535 672	(D)	(D)	713 495	(D)	(D)	2 221 728	27 439	14 888	8 582
3142	HOUSE SLIPPERS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	153	15	15	-	138	100	38	115	38	32	5
	WITH 20 EMP. OR MORE....DO..	97	15	15	-	82	77	5	92	5	3	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 039	2 431	2 431	-	8 608	8 058	550	10 489	550	331	(D)
	PAYROLL.....$1,000..	39 782	8 457	8 457	-	31 325	29 424	1 901	37 881	1 901	975	(D)
	VALUE ADDED, ADJUSTED.....DO..	64 555	16 927	16 927	-	47 628	44 494	3 134	61 421	3 134	1 676	(D)
	VALUE OF SHIPMENTS.....DO..	123 560	31 050	31 050	-	92 510	86 395	6 115	117 445	6 115	3 208	(D)
3151	LEATHER GLOVES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	166	26	23	3	140	71	69	94	72	51	18
	WITH 20 EMP. OR MORE....DO..	87	21	19	2	66	57	9	76	11	7	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	7 718	3 485	3 318	167	4 233	3 488	745	6 806	912	602	285
	PAYROLL.....$1,000..	24 439	11 274	10 743	531	13 165	11 174	1 991	21 917	2 522	1 682	766
	VALUE ADDED, ADJUSTED.....DO..	32 194	13 272	12 701	571	18 922	14 791	4 131	27 492	4 702	3 071	1 457
	VALUE OF SHIPMENTS.....DO..	80 640	37 415	36 352	1 063	43 225	35 206	8 019	71 558	9 082	5 775	2 949
3161	LUGGAGE											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	379	19	18	1	360	208	152	226	153	112	40
	WITH 20 EMP. OR MORE....DO..	145	19	18	1	126	110	16	128	17	6	11
	ALL EMPLOYEES:											
	TOTAL.....DO..	16 409	5 639	(D)	(D)	10 770	(D)	(D)	15 166	1 243	616	(D)
	PAYROLL.....$1,000..	62 853	24 644	(D)	(D)	38 209	(D)	(D)	58 814	4 039	1 959	(D)
	VALUE ADDED, ADJUSTED.....DO..	112 796	45 069	(D)	(D)	67 727	(D)	(D)	105 286	7 510	3 606	(D)
	VALUE OF SHIPMENTS.....DO..	210 303	75 933	(D)	(D)	134 370	(D)	(D)	195 458	14 845	7 418	(D)

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies				Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership	Corporate	Total[2]	Individual	Partnership
31	LEATHER & LEATHER PRODUCTS--CONTINUED											
3171	HANDBAGS AND PURSES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	545	36	34	2	509	314	195	348	197	141	52
	WITH 20 EMP. OR MORE....DO..	262	34	32	2	228	198	30	230	32	11	17
	ALL EMPLOYEES:											
	TOTAL.....DO..	24 548	5 854	(D)	(D)	18 694	(D)	(D)	21 771	2 777	1 294	1 085
	PAYROLL.....$1,000..	88 455	21 831	(D)	(D)	66 624	(D)	(D)	79 494	8 961	3 849	3 700
	VALUE ADDED, ADJUSTED.....DO..	142 554	34 841	(D)	(D)	107 713	(D)	(D)	126 184	16 370	7 195	6 846
	VALUE OF SHIPMENTS.....DO..	280 343	73 151	(D)	(D)	207 192	(D)	(D)	250 858	29 485	12 092	13 199
3172	SMALL LEATHER GOODS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	340	28	28	-	312	154	158	182	158	130	27
	WITH 20 EMP. OR MORE....DO..	117	18	18	-	99	87	12	105	12	7	5
	ALL EMPLOYEES:											
	TOTAL.....DO..	12 432	4 731	4 731	-	7 701	6 426	1 275	11 157	1 275	812	(D)
	PAYROLL.....$1,000..	47 352	19 907	19 907	-	27 445	23 506	3 939	43 413	3 939	2 555	(D)
	VALUE ADDED, ADJUSTED.....DO..	82 385	35 940	35 940	-	46 445	39 590	6 855	75 530	6 855	4 467	(D)
	VALUE OF SHIPMENTS.....DO..	159 013	65 780	65 780	-	93 233	79 600	13 633	145 380	13 633	8 904	(D)
3199	LEATHER GOODS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	370	15	15	-	355	140	215	155	215	173	41
	WITH 20 EMP. OR MORE....DO..	67	10	10	-	57	46	11	56	11	8	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	4 989	911	911	-	4 078	2 907	1 171	3 818	1 171	831	(D)
	PAYROLL.....$1,000..	18 742	3 195	3 195	-	15 547	11 852	3 695	15 047	3 695	2 613	(D)
	VALUE ADDED, ADJUSTED.....DO..	32 730	5 502	5 502	-	27 228	20 003	7 225	25 505	7 225	5 007	(D)
	VALUE OF SHIPMENTS.....DO..	67 058	12 467	12 467	-	54 591	41 223	13 368	53 690	13 368	9 512	(D)
32	STONE, CLAY, & GLASS PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	15 838	3 636	3 449	187	12 202	6 529	5 673	9 978	5 860	4 229	1 538
	WITH 20 EMP. OR MORE..DO..	4 655	2 217	2 178	39	2 438	2 205	233	4 383	272	121	128
	ALL EMPLOYEES:											
	TOTAL.....DO..	573 859	388 506	385 384	3 122	185 353	153 322	32 031	538 706	35 153	21 079	12 843
	PAYROLL.....$1,000..	3 212 495	2 290 867	2 276 312	14 555	921 628	790 492	131 136	3 066 804	145 721	84 235	55 203
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	455 818	314 180	311 954	2 226	141 638	116 597	25 041	428 551	27 267	16 602	9 796
	MAN-HOURS.....1,000..	928 948	640 160	635 570	4 590	288 788	237 705	51 083	873 275	55 673	33 918	19 985
	WAGES.....$1,000..	2 350 223	1 725 416	1 716 043	9 373	624 807	528 098	96 709	2 244 141	106 082	62 766	39 502
	VALUE ADDED, ADJUSTED...DO..	7 043 987	5 219 706	5 186 443	33 263	1 824 281	1 523 566	300 715	6 710 009	333 978	188 427	133 482
	CAPITAL EXPEND., NEW[3]...DO..	607 581	445 199	441 117	4 082	162 382	130 336	32 046	571 453	36 128	21 612	12 659
3211	FLAT GLASS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	31	26	26	-	5	5	-	31	-	-	-
	WITH 20 EMP. OR MORE....DO..	30	26	26	-	4	4	-	30	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	22 815	22 342	22 342	-	473	473	-	22 815	-	-	-
	PAYROLL.....$1,000..	172 214	169 492	169 492	-	2 722	2 722	-	172 214	-	-	-
	VALUE ADDED, ADJUSTED.....DO..	364 466	360 510	360 510	-	3 956	3 956	-	364 466	-	-	-
	VALUE OF SHIPMENTS.....DO..	549 390	543 199	543 199	-	6 191	6 191	-	549 390	-	-	-
3221	GLASS CONTAINERS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	113	100	100	-	13	8	5	108	5	4	-
	WITH 20 EMP. OR MORE....DO..	105	98	98	-	7	7	-	105	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	59 987	58 254	58 254	-	1 733	1 717	16	59 971	16	(D)	-
	PAYROLL.....$1,000..	327 956	317 474	317 474	-	10 482	10 397	85	327 871	85	(D)	-
	VALUE ADDED, ADJUSTED.....DO..	629 608	604 764	604 764	-	24 844	24 690	154	629 454	154	(D)	-
	VALUE OF SHIPMENTS.....DO..	1 004 464	964 807	964 807	-	39 657	39 398	259	1 004 205	259	(D)	-
3229	PRESSED AND BLOWN GLASS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	107	54	54	-	53	48	5	102	5	3	1
	WITH 20 EMP. OR MORE....DO..	95	54	54	-	41	39	2	93	2	1	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	37 999	31 231	31 231	-	6 768	6 655	113	37 886	113	(D)	(D)
	PAYROLL.....$1,000..	207 292	177 005	177 005	-	30 287	29 661	626	206 666	626	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	472 212	426 390	426 390	-	45 822	45 019	803	471 409	803	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	630 945	567 765	567 765	-	63 180	62 041	1 139	629 806	1 139	(D)	(D)
3231	PRODUCTS OF PURCHASED GLASS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 044	82	81	1	962	515	447	596	448	344	97
	WITH 20 EMP. OR MORE....DO..	249	62	62	-	187	172	15	234	15	5	10
	ALL EMPLOYEES:											
	TOTAL.....DO..	26 158	10 967	(D)	(D)	15 191	(D)	(D)	23 968	2 190	1 303	848
	PAYROLL.....$1,000..	138 275	66 198	(D)	(D)	72 077	(D)	(D)	129 426	8 849	5 266	3 422
	VALUE ADDED, ADJUSTED.....DO..	309 734	183 531	(D)	(D)	126 203	(D)	(D)	291 027	18 707	10 880	7 550
	VALUE OF SHIPMENTS.....DO..	627 327	370 476	(D)	(D)	256 851	(D)	(D)	595 778	31 549	18 127	13 056
3241	CEMENT, HYDRAULIC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	188	170	170	-	18	17	1	187	1	1	-
	WITH 20 EMP. OR MORE....DO..	179	165	165	-	14	14	-	179	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	34 863	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	PAYROLL.....$1,000..	227 385	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	VALUE ADDED, ADJUSTED.....DO..	785 681	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	VALUE OF SHIPMENTS.....DO..	1 176 913	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
32	STONE, CLAY, & GLASS PRODUCTS--CONTINUED											
3251	BRICK AND STRUCTURAL TILE											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	512	196	191	5	316	241	75	432	80	51	25
	WITH 20 EMP. OR MORE....DO..	400	188	184	4	212	190	22	374	26	10	12
	ALL EMPLOYEES:											
	TOTAL.....DO..	28 620	15 328	15 055	273	13 292	11 785	1 507	26 840	1 780	947	665
	PAYROLL.....$1,000..	130 378	71 438	70 306	1 132	58 940	53 002	5 938	123 308	7 070	4 046	2 408
	VALUE ADDED, ADJUSTED.....DO..	216 548	122 759	121 033	1 726	93 789	83 447	10 342	204 480	12 068	6 208	4 800
	VALUE OF SHIPMENTS.....DO..	325 093	182 403	180 152	2 251	142 690	126 566	16 124	306 718	18 375	9 468	7 496
3253	CERAMIC WALL AND FLOOR TILE											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	90	36	36	-	54	39	15	75	15	11	4
	WITH 20 EMP. OR MORE....DO..	64	33	33	-	31	26	5	59	5	2	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	12 795	9 187	9 187	-	3 608	3 388	220	12 575	220	88	132
	PAYROLL.....$1,000..	63 745	48 255	48 255	-	15 490	14 597	893	62 852	893	296	597
	VALUE ADDED, ADJUSTED.....DO..	110 571	83 375	83 375	-	27 196	25 754	1 442	109 129	1 442	460	982
	VALUE OF SHIPMENTS.....DO..	164 668	119 545	119 545	-	45 123	42 789	2 334	162 334	2 334	806	1 528
3255	CLAY REFRACTORIES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	150	99	99	-	51	40	11	139	11	9	2
	WITH 20 EMP. OR MORE....DO..	109	85	85	-	24	22	2	107	2	2	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 431	9 797	9 797	-	1 634	1 525	109	11 322	109	(D)	(D)
	PAYROLL.....$1,000..	64 822	56 270	56 270	-	8 552	7 866	686	64 136	686	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	118 248	103 358	103 358	-	14 890	13 844	1 046	117 202	1 046	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	192 230	169 310	169 310	-	22 920	21 053	1 867	190 363	1 867	(D)	(D)
3259	STRUCTURAL CLAY PRODUCTS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	164	69	68	1	95	61	34	129	35	24	10
	WITH 20 EMP. OR MORE....DO..	108	65	65	-	43	38	5	103	5	3	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	12 188	9 619	(D)	(D)	2 569	(D)	(D)	11 850	338	229	(D)
	PAYROLL.....$1,000..	61 977	49 563	(D)	(D)	12 414	(D)	(D)	60 636	1 341	902	(D)
	VALUE ADDED, ADJUSTED.....DO..	108 442	90 407	(D)	(D)	18 035	(D)	(D)	106 188	2 254	1 660	(D)
	VALUE OF SHIPMENTS.....DO..	159 724	133 447	(D)	(D)	26 277	(D)	(D)	156 664	3 060	2 242	(D)
3261	VITREOUS PLUMBING FIXTURES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	49	26	26	-	23	21	2	47	2	-	1
	WITH 20 EMP. OR MORE....DO..	43	26	26	-	17	16	1	42	1	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	9 280	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	-	(D)
	PAYROLL.....$1,000..	56 794	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	-	(D)
	VALUE ADDED, ADJUSTED.....DO..	101 502	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	-	(D)
	VALUE OF SHIPMENTS.....DO..	155 658	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	-	(D)
3262	VITREOUS CHINA FOOD UTENSILS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	31	13	13	-	18	11	7	24	7	5	2
	WITH 20 EMP. OR MORE....DO..	21	12	12	-	9	9	-	21	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	6 314	4 895	4 895	-	1 419	1 379	40	6 274	40	18	(D)
	PAYROLL.....$1,000..	29 552	23 645	23 645	-	5 907	5 802	105	29 447	105	46	(D)
	VALUE ADDED, ADJUSTED.....DO..	42 504	34 177	34 177	-	8 327	8 144	183	42 321	183	82	(D)
	VALUE OF SHIPMENTS.....DO..	50 954	40 962	40 962	-	9 992	9 761	231	50 723	231	97	(D)
3263	EARTHENWARE FOOD UTENSILS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	21	9	9	-	12	11	1	20	1	1	-
	WITH 20 EMP. OR MORE....DO..	18	9	9	-	9	8	1	17	1	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	7 349	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	PAYROLL.....$1,000..	31 614	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	VALUE ADDED, ADJUSTED.....DO..	41 046	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	VALUE OF SHIPMENTS.....DO..	59 046	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
3264	PORCELAIN ELECTRICAL SUPPLIES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	79	27	27	-	52	35	17	62	17	10	5
	WITH 20 EMP. OR MORE....DO..	49	25	25	-	24	23	1	48	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	10 170	7 690	7 690	-	2 480	2 174	306	9 864	306	30	(D)
	PAYROLL.....$1,000..	57 401	45 797	45 797	-	11 604	10 004	1 600	55 801	1 600	136	(D)
	VALUE ADDED, ADJUSTED.....DO..	90 001	73 346	73 346	-	16 655	13 785	2 870	87 131	2 870	205	(D)
	VALUE OF SHIPMENTS.....DO..	131 790	108 745	108 745	-	23 045	19 477	3 568	128 222	3 568	290	(D)
3269	POTTERY PRODUCTS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	458	30	26	4	428	147	281	173	285	215	66
	WITH 20 EMP. OR MORE....DO..	98	23	21	2	75	59	16	80	18	7	9
	ALL EMPLOYEES:											
	TOTAL.....DO..	9 085	3 028	2 965	63	6 057	4 379	1 678	7 344	1 741	1 097	576
	PAYROLL.....$1,000..	37 508	15 941	15 714	227	21 567	16 530	5 037	32 244	5 264	3 304	1 709
	VALUE ADDED, ADJUSTED.....DO..	62 107	25 800	25 280	520	36 307	26 910	9 397	52 190	9 917	6 163	3 376
	VALUE OF SHIPMENTS.....DO..	95 541	41 827	41 155	672	53 714	40 208	13 506	81 363	14 178	8 962	4 747
3271	CONCRETE BLOCK AND BRICK											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 841	191	173	18	1 650	824	826	997	844	588	245
	WITH 20 EMP. OR MORE....DO..	367	91	89	2	276	249	27	338	29	11	15
	ALL EMPLOYEES:											
	TOTAL.....DO..	23 759	5 165	4 904	261	18 594	13 997	4 597	18 901	4 858	2 893	1 841
	PAYROLL.....$1,000..	119 543	27 931	26 816	1 115	91 612	73 884	17 728	100 700	18 843	10 664	7 595
	VALUE ADDED, ADJUSTED.....DO..	245 525	58 614	56 688	1 926	186 911	146 569	40 342	203 257	42 268	22 661	18 586
	VALUE OF SHIPMENTS.....DO..	505 194	116 071	111 385	4 686	389 123	304 786	84 337	416 171	89 023	49 028	37 092

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies				Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership	Corporate	Total[2]	Individual	Partnership
32	STONE, CLAY, & GLASS PRODUCTS--CONTINUED											
3272	OTHER CONCRETE PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	3 451	520	483	37	2 931	1 223	1 708	1 706	1 745	1 334	387
	WITH 20 EMP. OR MORE....DO..	716	311	305	6	405	371	34	676	40	21	16
	ALL EMPLOYEES:											
	TOTAL.....DO..	52 297	21 484	20 913	571	30 813	23 699	7 114	44 612	7 685	5 270	2 228
	PAYROLL.....$1,000..	266 706	117 254	114 821	2 433	149 452	123 143	26 309	237 964	28 742	19 217	8 620
	VALUE ADDED, ADJUSTED.....DO..	539 967	252 147	246 641	5 506	287 820	228 682	59 138	475 323	64 644	42 161	20 783
	VALUE OF SHIPMENTS.....DO..	925 677	440 024	431 381	8 643	485 653	386 737	98 916	818 118	107 559	70 657	33 959
3273	READY-MIXED CONCRETE											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	4 621	1 146	1 046	100	3 475	2 126	1 349	3 172	1 449	970	454
	WITH 20 EMP. OR MORE....DO..	1 021	362	347	15	659	594	65	941	80	40	31
	ALL EMPLOYEES:											
	TOTAL.....DO..	71 523	25 973	24 773	1 200	45 550	36 639	8 911	61 412	10 111	6 016	3 691
	PAYROLL.....$1,000..	410 539	159 942	154 148	5 794	250 597	210 335	40 262	364 483	46 056	25 842	17 871
	VALUE ADDED, ADJUSTED.....DO..	981 997	388 109	372 327	15 782	593 888	483 690	110 198	856 017	125 980	70 387	50 181
	VALUE OF SHIPMENTS.....DO..	2 292 504	922 986	889 535	33 451	1 369 518	1 125 497	244 021	2 015 032	277 472	158 643	104 753
3274	LIME											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	125	83	82	1	42	20	22	102	23	17	5
	WITH 20 EMP. OR MORE....DO..	68	54	53	1	14	11	3	64	4	1	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	6 778	5 854	(D)	(D)	924	(D)	(D)	6 381	397	147	(D)
	PAYROLL.....$1,000..	38 903	34 339	(D)	(D)	4 564	(D)	(D)	36 820	2 083	1 018	(D)
	VALUE ADDED, ADJUSTED.....DO..	95 135	86 280	(D)	(D)	8 855	(D)	(D)	90 874	4 261	2 166	(D)
	VALUE OF SHIPMENTS.....DO..	164 366	145 919	(D)	(D)	18 447	(D)	(D)	156 978	7 388	3 345	(D)
3275	GYPSUM PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	122	76	76	-	46	19	27	95	27	20	7
	WITH 20 EMP. OR MORE....DO..	72	70	70	-	2	2	-	72	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 491	11 301	11 301	-	190	150	40	11 451	40	26	14
	PAYROLL.....$1,000..	70 335	69 382	69 382	-	953	760	193	70 142	193	127	66
	VALUE ADDED, ADJUSTED.....DO..	259 659	257 268	257 268	-	2 391	1 854	537	259 122	537	356	181
	VALUE OF SHIPMENTS.....DO..	425 108	419 863	419 863	-	5 245	4 403	842	424 266	842	535	307
3281	CUT STONE AND STONE PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	893	103	95	8	790	382	408	477	416	297	116
	WITH 20 EMP. OR MORE....DO..	211	63	59	4	148	130	18	189	22	7	15
	ALL EMPLOYEES:											
	TOTAL.....DO..	18 340	8 336	8 034	302	10 004	7 675	2 329	15 709	2 631	1 369	1 228
	PAYROLL.....$1,000..	85 745	38 805	37 610	1 195	46 940	37 129	9 811	74 739	11 006	5 526	5 335
	VALUE ADDED, ADJUSTED.....DO..	131 465	56 995	55 029	1 966	74 470	55 718	18 752	110 747	20 718	9 881	10 664
	VALUE OF SHIPMENTS.....DO..	217 176	92 742	89 652	3 090	124 434	92 740	31 694	182 392	34 784	17 127	17 055
3291	ABRASIVE PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	378	94	90	4	284	206	78	296	82	57	24
	WITH 20 EMP. OR MORE....DO..	149	70	67	3	79	76	3	143	6	2	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	28 170	22 927	22 725	202	5 243	4 883	360	27 608	562	255	(D)
	PAYROLL.....$1,000..	186 971	156 388	155 328	1 060	30 583	28 546	2 037	183 874	3 097	1 471	(D)
	VALUE ADDED, ADJUSTED.....DO..	416 415	357 745	355 279	2 466	58 670	53 523	5 147	408 802	7 613	2 940	(D)
	VALUE OF SHIPMENTS.....DO..	704 212	588 169	584 161	4 008	116 043	106 669	9 374	690 830	13 382	5 645	(D)
3292	ASBESTOS PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	124	82	82	-	42	29	13	111	13	9	2
	WITH 20 EMP. OR MORE....DO..	84	76	76	-	8	8	-	84	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	19 516	18 887	18 887	-	629	547	82	19 434	82	38	(D)
	PAYROLL.....$1,000..	118 024	114 632	114 632	-	3 392	3 001	391	117 633	391	178	(D)
	VALUE ADDED, ADJUSTED.....DO..	269 067	262 620	262 620	-	6 447	5 750	697	268 370	697	335	(D)
	VALUE OF SHIPMENTS.....DO..	509 236	496 952	496 952	-	12 284	10 869	1 415	507 821	1 415	678	(D)
3293	GASKETS AND INSULATIONS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	295	55	54	1	240	171	69	225	70	54	16
	WITH 20 EMP. OR MORE....DO..	111	46	46	-	65	59	6	105	6	3	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	16 825	11 993	(D)	(D)	4 832	(D)	(D)	16 280	545	331	214
	PAYROLL.....$1,000..	94 441	68 980	(D)	(D)	25 461	(D)	(D)	91 691	2 750	1 622	1 128
	VALUE ADDED, ADJUSTED.....DO..	160 734	116 725	(D)	(D)	44 009	(D)	(D)	155 527	5 207	2 979	2 228
	VALUE OF SHIPMENTS.....DO..	279 226	196 615	(D)	(D)	82 611	(D)	(D)	269 271	9 955	6 427	3 528
3295	MINERALS, GROUND OR TREATED											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	415	186	180	6	229	140	89	320	95	69	24
	WITH 20 EMP. OR MORE....DO..	97	70	68	2	27	26	1	94	3	1	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	7 330	5 041	4 938	103	2 289	1 898	391	6 836	494	283	(D)
	PAYROLL.....$1,000..	41 567	29 571	29 016	555	11 996	9 883	2 113	38 899	2 668	1 321	(D)
	VALUE ADDED, ADJUSTED.....DO..	102 079	77 209	76 172	1 037	24 870	20 061	4 809	96 233	5 846	3 117	(D)
	VALUE OF SHIPMENTS.....DO..	204 393	157 144	154 396	2 748	47 249	39 111	8 138	193 507	10 886	5 782	(D)
3296	MINERAL WOOL											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	123	59	59	-	64	47	17	106	17	16	-
	WITH 20 EMP. OR MORE....DO..	67	52	52	-	15	13	2	65	2	2	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	14 733	13 724	13 724	-	1 009	877	132	14 601	132	(D)	-
	PAYROLL.....$1,000..	92 347	86 928	86 928	-	5 419	4 846	573	91 774	573	(D)	-
	VALUE ADDED, ADJUSTED.....DO..	206 846	196 595	196 595	-	10 251	9 196	1 055	205 791	1 055	(D)	-
	VALUE OF SHIPMENTS.....DO..	391 873	368 156	368 156	-	23 717	21 223	2 494	389 379	2 494	(D)	-

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
32	STONE, CLAY, & GLASS PRODUCTS--CONTINUED											
3297	NONCLAY REFRACTORIES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	93	74	73	1	19	17	2	90	3	2	1
	WITH 20 EMP. OR MORE....DO..	68	60	60	-	8	8	-	68	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	8 572	7 869	(D)	(D)	703	(D)	(D)	(D)	(D)	(D)	(D)
	PAYROLL.....$1,000..	53 367	48 573	(D)	(D)	4 794	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	129 139	118 915	(D)	(D)	10 224	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	250 195	234 184	(D)	(D)	16 011	(D)	(D)	(D)	(D)	(D)	(D)
3299	NONMETALLIC MINERALS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	320	30	30	-	290	126	164	156	164	118	44
	WITH 20 EMP. OR MORE....DO..	56	21	21	-	35	31	4	52	4	2	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	5 471	2 701	2 701	-	2 770	2 072	698	4 773	698	408	(D)
	PAYROLL.....$1,000..	27 094	14 742	14 742	-	12 352	9 779	2 573	24 521	2 573	1 496	(D)
	VALUE ADDED, ADJUSTED.....DO..	53 289	30 545	30 545	-	22 744	17 385	5 359	47 930	5 359	2 939	(D)
	VALUE OF SHIPMENTS.....DO..	96 188	56 381	56 381	-	39 807	31 244	8 563	87 625	8 563	4 987	(D)
33	PRIMARY METAL INDUSTRIES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	6 513	1 903	1 880	23	4 610	3 155	1 455	5 035	1 478	1 066	377
	WITH 20 EMP. OR MORE..DO..	3 583	1 673	1 661	12	1 910	1 761	149	3 422	161	66	82
	ALL EMPLOYEES:											
	TOTAL.....DO..	1 126 536	957 541	956 217	1 324	168 995	155 687	13 308	1 111 904	14 632	7 657	5 587
	PAYROLL.....$1,000..	7 734 129	6 766 600	6 757 734	8 866	967 529	902 063	65 466	7 659 797	74 332	36 775	27 449
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	922 152	780 589	779 463	1 126	141 563	129 911	11 652	909 374	12 778	6 654	4 983
	MAN-HOURS.....1,000..	1 838 971	1 550 123	1 547 850	2 273	288 848	265 368	23 480	1 813 218	25 753	13 314	10 096
	WAGES.....$1,000..	5 933 628	5 206 509	5 199 421	7 088	727 119	672 307	54 812	5 871 728	61 900	30 497	23 511
	VALUE ADDED, ADJUSTED...DO..	15 261 089	13 582 201	13 564 839	17 362	1 678 888	1 547 510	131 378	15 112 349	148 740	71 817	56 632
	CAPITAL EXPEND., NEW[3]...DO..	1 446 303	1 361 324	1 360 748	576	84 979	79 857	5 122	1 440 605	5 698	3 309	1 778
3312	BLAST FURNACES AND STEEL MILLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	288	234	230	4	54	44	10	274	14	12	1
	WITH 20 EMP. OR MORE....DO..	247	220	218	2	27	25	2	243	4	2	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	500 550	494 937	494 804	133	5 613	5 554	59	500 358	192	(D)	(D)
	PAYROLL.....$1,000..	3 711 639	3 674 398	3 673 486	912	37 241	36 951	290	3 710 437	1 202	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	7 699 535	7 637 325	7 635 049	2 276	62 210	61 364	846	7 696 413	3 122	(D)	(D)
	VALUE OF SHIPMENTS[4].....DO..	16 611 083	16 480 226	16 474 627	5 599	130 857	129 127	1 730	16 603 754	7 329	(D)	(D)
3313	ELECTROMETALLURGICAL PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	36	30	30	-	6	4	2	34	2	2	-
	WITH 20 EMP. OR MORE....DO..	30	28	28	-	2	2	-	30	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	10 437	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	PAYROLL.....$1,000..	68 880	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	VALUE ADDED, ADJUSTED.....DO..	145 503	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	VALUE OF SHIPMENTS.....DO..	382 132	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
3315	STEEL WIRE DRAWING, ETC.											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	200	85	84	1	115	97	18	181	19	14	3
	WITH 20 EMP. OR MORE....DO..	133	72	71	1	61	58	3	129	4	2	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	21 280	15 561	(D)	(D)	5 719	(D)	(D)	20 922	358	177	(D)
	PAYROLL.....$1,000..	134 636	101 959	(D)	(D)	32 677	(D)	(D)	132 620	2 016	968	(D)
	VALUE ADDED, ADJUSTED.....DO..	253 009	184 227	(D)	(D)	68 782	(D)	(D)	247 606	5 403	1 821	(D)
	VALUE OF SHIPMENTS.....DO..	592 263	437 973	(D)	(D)	154 290	(D)	(D)	577 776	14 487	5 012	(D)
3316	COLD FINISHING OF STEEL SHAPES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	81	56	56	-	25	19	6	75	6	3	2
	WITH 20 EMP. OR MORE....DO..	68	55	55	-	13	13	-	68	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	13 700	11 970	11 970	-	1 730	1 695	35	13 665	35	19	(D)
	PAYROLL.....$1,000..	99 557	86 867	86 867	-	12 690	12 478	212	99 345	212	124	(D)
	VALUE ADDED, ADJUSTED.....DO..	223 977	192 183	192 183	-	31 794	31 419	375	223 602	375	192	(D)
	VALUE OF SHIPMENTS.....DO..	751 627	653 377	653 377	-	98 250	97 409	841	750 786	841	385	(D)
3317	STEEL PIPE AND TUBE											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	141	73	73	-	68	58	10	131	10	9	1
	WITH 20 EMP. OR MORE....DO..	115	71	71	-	44	42	2	113	2	2	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	22 882	19 326	19 326	-	3 556	3 418	138	22 744	138	(D)	18
	PAYROLL.....$1,000..	153 147	132 743	132 743	-	20 404	19 475	929	152 218	929	(D)	110
	VALUE ADDED, ADJUSTED.....DO..	295 242	254 399	254 399	-	40 843	38 942	1 901	293 341	1 901	(D)	133
	VALUE OF SHIPMENTS.....DO..	809 009	697 667	697 667	-	111 342	107 461	3 881	805 128	3 881	(D)	359
3321	GRAY IRON FOUNDRIES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 139	232	229	3	907	616	291	845	294	202	86
	WITH 20 EMP. OR MORE....DO..	767	216	214	2	551	488	63	702	65	30	33
	ALL EMPLOYEES:											
	TOTAL.....DO..	120 528	74 115	74 001	114	46 413	42 100	4 313	116 101	4 427	2 440	1 804
	PAYROLL.....$1,000..	730 279	482 901	482 359	542	247 378	227 184	20 194	709 543	20 736	11 625	8 316
	VALUE ADDED, ADJUSTED.....DO..	1 168 478	800 870	799 677	1 193	367 608	336 600	31 008	1 136 277	32 201	17 162	14 136
	VALUE OF SHIPMENTS.....DO..	1 984 944	1 408 224	1 406 100	2 124	576 720	529 179	47 541	1 935 279	49 665	26 273	21 892

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
33	PRIMARY METAL INDUSTRIES--CONTINUED											
3322	MALLEABLE IRON FOUNDRIES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	81	42	41	1	39	31	8	72	9	4	3
	WITH 20 EMP. OR MORE....DO..	71	41	40	1	30	29	1	69	2	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	22 297	17 856	(D)	(D)	4 441	(D)	(D)	22 091	206	90	(D)
	PAYROLL.....$1,000..	141 967	118 477	(D)	(D)	23 490	(D)	(D)	141 017	950	392	(D)
	VALUE ADDED, ADJUSTED.....DO..	204 557	174 097	(D)	(D)	30 460	(D)	(D)	202 986	1 571	576	(D)
	VALUE OF SHIPMENTS.....DO..	317 528	269 920	(D)	(D)	47 608	(D)	(D)	315 369	2 159	799	(D)
3323	STEEL FOUNDRIES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	267	119	118	1	148	127	21	245	22	13	9
	WITH 20 EMP. OR MORE....DO..	220	113	112	1	107	103	4	215	5	2	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	56 810	42 938	(D)	(D)	13 872	(D)	(D)	56 254	556	156	400
	PAYROLL.....$1,000..	361 378	279 875	(D)	(D)	81 503	(D)	(D)	358 873	2 505	555	1 950
	VALUE ADDED, ADJUSTED.....DO..	586 914	456 347	(D)	(D)	130 567	(D)	(D)	577 960	8 954	6 180	2 774
	VALUE OF SHIPMENTS.....DO..	871 048	683 870	(D)	(D)	187 178	(D)	(D)	860 471	10 577	6 520	4 057
3331	PRIMARY COPPER											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	33	31	31	-	2	1	1	32	1	-	1
	WITH 20 EMP. OR MORE....DO..	33	31	31	-	2	1	1	32	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	14 949	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	-	(D)
	PAYROLL.....$1,000..	96 134	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	-	(D)
	VALUE ADDED, ADJUSTED.....DO..	285 510	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	-	(D)
	VALUE OF SHIPMENTS[4].....DO..	1 245 457	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	-	(D)
3332	PRIMARY LEAD											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	10	9	9	-	1	1	-	10	-	-	-
	WITH 20 EMP. OR MORE....DO..	10	9	9	-	1	1	-	10	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	2 578	(D)	(D)	-	(D)	(D)	-	2 578	-	-	-
	PAYROLL.....$1,000..	14 997	(D)	(D)	-	(D)	(D)	-	14 997	-	-	-
	VALUE ADDED, ADJUSTED.....DO..	24 876	(D)	(D)	-	(D)	(D)	-	24 876	-	-	-
	VALUE OF SHIPMENTS[4].....DO..	265 072	(D)	(D)	-	(D)	(D)	-	265 072	-	-	-
3333	PRIMARY ZINC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	18	17	17	-	1	1	-	18	-	-	-
	WITH 20 EMP. OR MORE....DO..	18	17	17	-	1	1	-	18	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	8 065	(D)	(D)	-	(D)	(D)	-	8 065	-	-	-
	PAYROLL.....$1,000..	47 760	(D)	(D)	-	(D)	(D)	-	47 760	-	-	-
	VALUE ADDED, ADJUSTED.....DO..	98 789	(D)	(D)	-	(D)	(D)	-	98 789	-	-	-
	VALUE OF SHIPMENTS.....DO..	281 537	(D)	(D)	-	(D)	(D)	-	281 537	-	-	-
3334	PRIMARY ALUMINUM											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	23	23	23	-	-	-	-	23	-	-	-
	WITH 20 EMP. OR MORE....DO..	22	22	22	-	-	-	-	22	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	18 133	18 133	18 133	-	-	-	-	18 133	-	-	-
	PAYROLL.....$1,000..	134 116	134 116	134 116	-	-	-	-	134 116	-	-	-
	VALUE ADDED, ADJUSTED.....DO..	499 576	499 576	499 576	-	-	-	-	499 576	-	-	-
	VALUE OF SHIPMENTS.....DO..	1 089 977	1 089 977	1 089 977	-	-	-	-	1 089 977	-	-	-
3339	PRIMARY NONFERROUS METALS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	35	27	27	-	8	7	1	34	1	1	-
	WITH 20 EMP. OR MORE....DO..	26	23	23	-	3	3	-	26	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	5 064	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	PAYROLL.....$1,000..	34 807	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	VALUE ADDED, ADJUSTED.....DO..	103 830	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	VALUE OF SHIPMENTS.....DO..	212 176	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
3341	SECONDARY NONFERROUS METALS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	459	100	96	4	359	236	123	332	127	86	39
	WITH 20 EMP. OR MORE....DO..	179	82	80	2	97	91	6	171	8	1	6
	ALL EMPLOYEES:											
	TOTAL.....DO..	15 445	8 345	8 264	81	7 100	6 432	668	14 696	749	395	(D)
	PAYROLL.....$1,000..	96 302	53 597	53 133	464	42 705	39 533	3 172	92 666	3 636	1 827	(D)
	VALUE ADDED, ADJUSTED.....DO..	228 190	116 952	115 589	1 363	111 238	98 132	13 106	213 721	14 469	6 425	(D)
	VALUE OF SHIPMENTS.....DO..	1 045 522	612 985	608 816	4 169	432 537	392 769	39 768	1 001 585	43 937	23 930	(D)
3351	COPPER ROLLING AND DRAWING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	112	74	74	-	38	36	2	110	2	1	1
	WITH 20 EMP. OR MORE....DO..	92	69	69	-	23	23	-	92	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	38 949	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	PAYROLL.....$1,000..	260 320	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	478 393	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	1 657 526	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3352	ALUMINUM ROLLING AND DRAWING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	212	105	103	2	107	88	19	191	21	19	2
	WITH 20 EMP. OR MORE....DO..	153	97	97	-	56	56	-	153	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	54 263	48 840	(D)	(D)	5 423	(D)	(D)	54 156	107	100	(D)
	PAYROLL.....$1,000..	376 647	346 856	(D)	(D)	29 791	(D)	(D)	376 209	438	406	(D)
	VALUE ADDED, ADJUSTED.....DO..	721 171	658 942	(D)	(D)	62 229	(D)	(D)	719 457	1 714	1 509	(D)
	VALUE OF SHIPMENTS.....DO..	2 196 439	2 023 833	(D)	(D)	172 606	(D)	(D)	2 193 325	3 114	2 881	(D)

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
33	PRIMARY METAL INDUSTRIES--CONTINUED											
3356	ROLLING AND DRAWING, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	125	54	54	-	71	50	21	104	21	15	5
	WITH 20 EMP. OR MORE....DO..	67	48	48	-	19	18	1	66	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	17 375	15 701	15 701	-	1 674	1 395	279	17 096	279	35	(D)
	PAYROLL.....$1,000..	117 454	107 568	107 568	-	9 886	8 409	1 477	115 977	1 477	186	(D)
	VALUE ADDED, ADJUSTED.....DO..	250 589	226 371	226 371	-	24 218	21 259	2 959	247 630	2 959	668	(D)
	VALUE OF SHIPMENTS.....DO..	640 962	550 695	550 695	-	90 267	74 758	15 509	625 453	15 509	2 097	(D)
3357	NONFERROUS WIRE DRAWING, ETC.											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	299	157	157	-	142	113	29	270	29	21	8
	WITH 20 EMP. OR MORE....DO..	227	149	149	-	78	76	2	225	2	-	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	56 418	46 470	46 470	-	9 948	9 741	207	56 211	207	105	102
	PAYROLL.....$1,000..	339 935	288 560	288 560	-	51 375	50 431	944	338 991	944	451	493
	VALUE ADDED, ADJUSTED.....DO..	677 535	569 788	569 788	-	107 747	105 478	2 269	675 266	2 269	1 067	1 202
	VALUE OF SHIPMENTS.....DO..	2 117 943	1 860 442	1 860 442	-	257 501	251 254	6 247	2 111 696	6 247	2 885	3 362
3361	ALUMINUM CASTINGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	954	106	104	2	848	475	373	579	375	285	87
	WITH 20 EMP. OR MORE....DO..	321	78	77	1	243	223	20	300	21	10	10
	ALL EMPLOYEES:											
	TOTAL.....DO..	36 216	17 971	(D)	(D)	18 245	(D)	(D)	34 082	2 134	1 391	695
	PAYROLL.....$1,000..	222 771	121 974	(D)	(D)	100 797	(D)	(D)	213 117	9 654	6 210	3 152
	VALUE ADDED, ADJUSTED.....DO..	343 863	186 267	(D)	(D)	157 596	(D)	(D)	325 893	17 970	11 187	6 186
	VALUE OF SHIPMENTS.....DO..	640 193	362 346	(D)	(D)	277 847	(D)	(D)	610 315	29 878	19 185	9 717
3362	BRASS, BRONZE, COPPER CASTINGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	549	63	62	1	486	300	186	362	187	133	47
	WITH 20 EMP. OR MORE....DO..	193	43	43	-	150	135	15	178	15	6	8
	ALL EMPLOYEES:											
	TOTAL.....DO..	15 341	4 559	(D)	(D)	10 782	(D)	(D)	13 689	1 652	933	625
	PAYROLL.....$1,000..	86 350	25 598	(D)	(D)	60 752	(D)	(D)	78 348	8 002	4 360	3 158
	VALUE ADDED, ADJUSTED.....DO..	144 092	46 239	(D)	(D)	97 853	(D)	(D)	130 122	13 970	7 031	6 223
	VALUE OF SHIPMENTS.....DO..	287 534	100 081	(D)	(D)	187 453	(D)	(D)	260 511	27 023	13 955	11 675
3369	NONFERROUS CASTINGS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	391	46	44	2	345	235	110	279	112	82	27
	WITH 20 EMP. OR MORE....DO..	165	40	39	1	125	111	14	150	15	3	11
	ALL EMPLOYEES:											
	TOTAL.....DO..	17 686	7 170	(D)	(D)	10 516	(D)	(D)	16 305	1 381	691	645
	PAYROLL.....$1,000..	102 929	44 459	(D)	(D)	58 470	(D)	(D)	95 939	6 990	3 346	3 342
	VALUE ADDED, ADJUSTED.....DO..	168 530	71 700	(D)	(D)	96 830	(D)	(D)	155 819	12 711	4 713	6 938
	VALUE OF SHIPMENTS.....DO..	302 731	125 736	(D)	(D)	176 995	(D)	(D)	278 085	24 646	10 702	12 111
3391	IRON AND STEEL FORGINGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	272	74	73	1	198	152	46	225	47	30	13
	WITH 20 EMP. OR MORE....DO..	189	69	68	1	120	115	5	183	6	1	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	36 317	25 631	(D)	(D)	10 686	(D)	(D)	35 314	1 003	250	75
	PAYROLL.....$1,000..	259 793	183 139	(D)	(D)	76 654	(D)	(D)	251 574	8 219	1 578	456
	VALUE ADDED, ADJUSTED.....DO..	395 302	261 698	(D)	(D)	133 604	(D)	(D)	380 421	14 881	2 582	805
	VALUE OF SHIPMENTS.....DO..	868 948	576 127	(D)	(D)	292 821	(D)	(D)	836 283	32 665	6 194	1 471
3392	NONFERROUS FORGINGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	34	13	13	-	21	15	6	28	6	3	2
	WITH 20 EMP. OR MORE....DO..	19	12	12	-	7	6	1	18	1	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	6 297	5 719	5 719	-	578	511	67	6 230	67	27	(D)
	PAYROLL.....$1,000..	47 627	43 766	43 766	-	3 861	3 439	422	47 205	422	233	(D)
	VALUE ADDED, ADJUSTED.....DO..	71 378	64 506	64 506	-	6 872	6 056	816	70 562	816	516	(D)
	VALUE OF SHIPMENTS.....DO..	165 146	152 388	152 388	-	12 758	10 959	1 799	163 347	1 799	1 281	(D)
3399	PRIMARY METAL INDUSTRIES, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	754	133	132	1	621	449	172	581	173	131	40
	WITH 20 EMP. OR MORE....DO..	218	68	68	-	150	141	9	209	9	5	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	14 956	5 576	(D)	(D)	9 380	(D)	(D)	13 950	1 006	645	(D)
	PAYROLL.....$1,000..	94 704	36 960	(D)	(D)	57 744	(D)	(D)	89 447	5 257	3 295	(D)
	VALUE ADDED, ADJUSTED.....DO..	192 250	83 870	(D)	(D)	108 380	(D)	(D)	180 351	11 899	7 296	(D)
	VALUE OF SHIPMENTS.....DO..	284 661	133 310	(D)	(D)	151 351	(D)	(D)	268 698	15 963	10 064	(D)
34	FABRICATED METAL PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	26 975	3 480	3 386	94	23 495	14 040	9 455	17 426	9 549	7 350	2 062
	WITH 20 EMP. OR MORE..DO..	9 210	2 758	2 707	51	6 452	5 920	532	8 627	583	251	282
	ALL EMPLOYEES:											
	TOTAL.....DO..	1 082 102	593 381	588 923	4 458	488 721	430 068	58 653	1 018 991	63 111	37 603	21 964
	PAYROLL.....$1,000..	6 387 508	3 679 943	3 656 364	23 579	2 707 565	2 426 775	280 790	6 083 139	304 369	174 832	109 981
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	843 795	455 985	452 264	3 721	387 810	339 092	48 718	791 356	52 439	31 087	18 509
	MAN-HOURS.....1,000..	1 721 034	928 921	921 654	7 267	792 113	693 703	98 410	1 615 357	105 677	62 336	37 710
	WAGES.....$1,000..	4 483 688	2 596 358	2 578 103	18 255	1 887 330	1 663 701	223 629	4 241 804	241 884	138 876	89 080
	VALUE ADDED, ADJUSTED...DO..	11 791 081	7 078 303	7 035 656	42 647	4 712 778	4 171 825	540 953	11 207 481	583 600	329 805	217 375
	CAPITAL EXPEND., NEW[3]...DO..	570 077	370 495	364 718	5 777	199 582	175 879	23 703	540 597	29 480	16 879	8 142

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
34	FABRICATED METAL PRODUCTS--CONTINUED											
3411	METAL CANS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	270	208	204	4	62	45	17	249	21	14	4
	WITH 20 EMP. OR MORE....DO..	206	177	173	4	29	27	2	200	6	1	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	53 245	50 846	50 655	191	2 399	2 183	216	52 838	407	151	99
	PAYROLL.....$1,000..	377 031	363 545	362 400	1 145	13 486	12 227	1 259	374 627	2 404	912	536
	VALUE ADDED, ADJUSTED....DO..	830 515	808 653	803 430	5 223	21 862	19 255	2 607	822 685	7 830	1 768	1 234
	VALUE OF SHIPMENTS.....DO..	2 075 014	2 019 312	2 005 262	14 050	55 702	49 128	6 574	2 054 390	20 624	4 802	2 509
3421	CUTLERY											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	161	26	26	-	135	85	50	111	50	37	13
	WITH 20 EMP. OR MORE....DO..	67	22	22	-	45	43	2	65	2	1	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 837	7 603	7 603	-	4 234	3 963	271	11 566	271	177	94
	PAYROLL.....$1,000..	64 281	44 367	44 367	-	19 914	18 700	1 214	63 067	1 214	807	407
	VALUE ADDED, ADJUSTED....DO..	213 998	179 054	179 054	-	34 944	32 505	2 439	211 559	2 439	1 558	881
	VALUE OF SHIPMENTS.....DO..	283 352	229 882	229 882	-	53 470	49 888	3 582	279 770	3 582	2 174	1 408
3423	HAND AND EDGE TOOLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	716	105	104	1	611	366	245	470	246	190	53
	WITH 20 EMP. OR MORE....DO..	255	88	88	-	167	150	17	238	17	8	8
	ALL EMPLOYEES:											
	TOTAL.....DO..	31 480	18 757	(D)	(D)	12 723	(D)	(D)	29 925	1 555	903	536
	PAYROLL.....$1,000..	176 837	109 735	(D)	(D)	67 102	(D)	(D)	170 102	6 735	3 812	2 433
	VALUE ADDED, ADJUSTED....DO..	364 265	233 202	(D)	(D)	131 063	(D)	(D)	348 203	16 062	8 165	7 117
	VALUE OF SHIPMENTS.....DO..	565 590	356 882	(D)	(D)	208 708	(D)	(D)	540 975	24 615	13 002	10 455
3425	HAND SAWS AND SAW BLADES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	76	21	21	-	55	41	14	62	14	9	5
	WITH 20 EMP. OR MORE....DO..	42	19	19	-	23	21	2	40	2	1	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	5 095	3 372	3 372	-	1 723	1 599	124	4 971	124	66	58
	PAYROLL.....$1,000..	29 148	19 499	19 499	-	9 649	9 022	627	28 521	627	286	341
	VALUE ADDED, ADJUSTED....DO..	65 634	46 931	46 931	-	18 703	17 420	1 283	64 351	1 283	593	690
	VALUE OF SHIPMENTS.....DO..	102 782	72 763	72 763	-	30 019	27 945	2 074	100 708	2 074	893	1 181
3429	HARDWARE, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 069	168	166	2	901	621	280	787	282	214	65
	WITH 20 EMP. OR MORE....DO..	446	145	143	2	301	276	25	419	27	13	12
	ALL EMPLOYEES:											
	TOTAL.....DO..	88 142	59 295	(D)	(D)	28 847	(D)	(D)	85 503	2 639	1 227	1 233
	PAYROLL.....$1,000..	529 217	376 632	(D)	(D)	152 585	(D)	(D)	516 736	12 481	5 287	6 033
	VALUE ADDED, ADJUSTED....DO..	1 063 661	778 232	(D)	(D)	285 429	(D)	(D)	1 038 969	24 692	10 689	11 683
	VALUE OF SHIPMENTS.....DO..	1 785 134	1 291 667	(D)	(D)	493 467	(D)	(D)	1 740 687	44 447	19 692	21 524
3431	METAL PLUMBING FIXTURES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	81	23	22	1	58	38	20	60	21	16	5
	WITH 20 EMP. OR MORE....DO..	45	22	22	-	23	20	3	42	3	2	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 011	9 262	(D)	(D)	1 749	(D)	(D)	10 733	278	219	59
	PAYROLL.....$1,000..	68 162	58 664	(D)	(D)	9 498	(D)	(D)	66 783	1 379	1 148	231
	VALUE ADDED, ADJUSTED....DO..	139 859	122 094	(D)	(D)	17 765	(D)	(D)	137 332	2 527	2 060	467
	VALUE OF SHIPMENTS.....DO..	234 896	201 507	(D)	(D)	33 389	(D)	(D)	229 768	5 128	4 117	1 011
3432	PLUMBING FITTINGS, BRASS GOODS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	250	33	31	2	217	157	60	188	62	48	14
	WITH 20 EMP. OR MORE....DO..	102	27	27	-	75	69	6	96	6	3	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	15 129	7 684	(D)	(D)	7 445	(D)	(D)	14 563	566	312	254
	PAYROLL.....$1,000..	79 336	41 543	(D)	(D)	37 793	(D)	(D)	76 763	2 573	1 458	1 115
	VALUE ADDED, ADJUSTED....DO..	154 752	83 533	(D)	(D)	71 219	(D)	(D)	149 163	5 589	3 113	2 476
	VALUE OF SHIPMENTS.....DO..	333 832	173 952	(D)	(D)	159 880	(D)	(D)	321 632	12 200	6 590	5 610
3433	HEATING EQUIPMENT EXCEPT ELECTRI											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	648	136	135	1	512	353	159	488	160	131	25
	WITH 20 EMP. OR MORE....DO..	280	118	117	1	162	153	9	270	10	4	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	42 020	27 514	(D)	(D)	14 506	(D)	(D)	40 855	1 165	783	233
	PAYROLL.....$1,000..	243 857	164 420	(D)	(D)	79 437	(D)	(D)	238 418	5 439	3 782	901
	VALUE ADDED, ADJUSTED....DO..	495 652	345 840	(D)	(D)	149 812	(D)	(D)	483 758	11 894	8 001	2 329
	VALUE OF SHIPMENTS.....DO..	1 019 787	704 583	(D)	(D)	315 204	(D)	(D)	995 796	23 991	15 813	4 554
3441	FABRICATED STRUCTURAL STEEL											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 718	237	230	7	1 481	1 026	455	1 256	462	361	89
	WITH 20 EMP. OR MORE....DO..	817	198	196	2	619	574	45	770	47	26	17
	ALL EMPLOYEES:											
	TOTAL.....DO..	85 423	43 727	43 652	75	41 696	37 323	4 373	80 975	4 448	2 934	1 315
	PAYROLL.....$1,000..	527 220	268 060	267 563	497	259 160	235 782	23 378	503 345	23 875	15 131	7 552
	VALUE ADDED, ADJUSTED....DO..	814 805	386 606	386 008	598	428 199	386 842	41 357	772 850	41 955	26 561	14 095
	VALUE OF SHIPMENTS.....DO..	1 916 048	965 080	963 443	1 637	950 968	867 742	83 226	1 831 185	84 863	53 709	27 834
3442	METAL DOORS, SASH, AND TRIM											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 817	276	265	11	1 541	996	545	1 261	556	452	95
	WITH 20 EMP. OR MORE....DO..	628	199	196	3	429	413	16	609	19	6	10
	ALL EMPLOYEES:											
	TOTAL.....DO..	62 799	27 829	27 700	129	34 970	32 000	2 970	59 700	3 099	2 148	783
	PAYROLL.....$1,000..	324 796	147 695	147 186	509	177 101	164 903	12 198	312 089	12 707	8 527	3 324
	VALUE ADDED, ADJUSTED....DO..	570 370	255 833	254 614	1 219	314 537	290 490	24 047	545 104	25 266	17 302	6 652
	VALUE OF SHIPMENTS.....DO..	1 253 814	570 521	567 870	2 651	683 293	625 788	57 505	1 193 658	60 156	40 023	16 018

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
34	FABRICATED METAL PRODUCTS--CONTINUED											
3443	BOILER SHOP PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 383	230	222	8	1 153	722	431	944	439	330	103
	WITH 20 EMP. OR MORE....DO..	601	193	186	7	408	368	40	554	47	23	21
	ALL EMPLOYEES:											
	TOTAL.....DO..	75 018	46 831	46 383	448	28 187	24 305	3 882	70 688	4 330	2 414	1 672
	PAYROLL.....$1,000..	465 372	298 130	296 435	1 695	167 242	146 487	20 755	442 922	22 450	12 658	8 320
	VALUE ADDED, ADJUSTED.....DO..	770 064	503 846	500 785	3 061	266 218	229 257	36 961	730 042	40 022	21 602	15 602
	VALUE OF SHIPMENTS.....DO..	1 622 988	1 065 950	1 056 023	9 927	557 038	485 901	71 137	1 541 924	81 064	45 011	30 880
3444	SHEET METAL WORK											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	3 250	278	263	15	2 972	1 539	1 433	1 802	1 448	1 170	263
	WITH 20 EMP. OR MORE....DO..	755	161	157	4	594	540	54	697	58	33	23
	ALL EMPLOYEES:											
	TOTAL.....DO..	61 651	18 373	18 031	342	43 278	36 224	7 054	54 255	7 396	5 155	2 103
	PAYROLL.....$1,000..	373 284	115 090	112 633	2 457	258 194	221 861	36 333	334 494	38 790	25 624	12 424
	VALUE ADDED, ADJUSTED.....DO..	632 384	212 059	208 679	3 380	420 325	354 089	66 236	562 768	69 616	46 550	22 079
	VALUE OF SHIPMENTS.....DO..	1 303 670	512 101	507 342	4 759	791 569	671 980	119 589	1 179 322	124 348	82 844	39 922
3446	ARCHITECTURAL METAL WORK											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 334	41	39	2	1 293	454	839	493	841	650	183
	WITH 20 EMP. OR MORE....DO..	173	32	31	1	141	128	13	159	14	4	7
	ALL EMPLOYEES:											
	TOTAL.....DO..	15 587	3 960	(D)	(D)	11 627	(D)	(D)	12 919	2 668	1 668	885
	PAYROLL.....$1,000..	86 956	23 402	(D)	(D)	63 554	(D)	(D)	73 908	13 048	7 719	4 700
	VALUE ADDED, ADJUSTED.....DO..	148 763	41 346	(D)	(D)	107 417	(D)	(D)	121 666	27 097	15 004	11 204
	VALUE OF SHIPMENTS.....DO..	269 256	79 912	(D)	(D)	189 344	(D)	(D)	223 708	45 548	26 306	17 854
3449	MISCELLANEOUS METAL WORK, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	697	125	118	7	572	287	285	405	292	249	40
	WITH 20 EMP. OR MORE....DO..	247	110	105	5	137	130	7	235	12	5	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	24 992	14 429	13 531	898	10 563	9 341	1 222	22 872	2 120	1 031	536
	PAYROLL.....$1,000..	145 042	87 219	81 151	6 068	57 823	52 026	5 797	133 177	11 865	4 808	3 904
	VALUE ADDED, ADJUSTED.....DO..	283 427	171 014	162 930	8 084	112 413	100 165	12 248	263 095	20 332	9 431	6 697
	VALUE OF SHIPMENTS.....DO..	704 166	459 926	443 315	16 611	244 240	222 412	21 828	665 727	38 439	18 336	10 153
3451	SCREW MACHINE PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 874	64	64	-	1 810	1 069	741	1 133	741	536	197
	WITH 20 EMP. OR MORE....DO..	516	48	48	-	468	406	62	454	62	15	44
	ALL EMPLOYEES:											
	TOTAL.....DO..	36 909	4 698	4 698	-	32 211	26 913	5 298	31 611	5 298	2 595	2 449
	PAYROLL.....$1,000..	213 172	28 130	28 130	-	185 042	158 961	26 081	187 091	26 081	12 153	12 574
	VALUE ADDED, ADJUSTED.....DO..	358 961	46 006	46 006	-	312 955	263 088	49 867	309 094	49 867	23 543	24 052
	VALUE OF SHIPMENTS.....DO..	588 981	80 423	80 423	-	508 558	425 213	83 345	505 636	83 345	39 688	40 025
3452	BOLTS, NUTS, RIVETS, & WASHERS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	573	158	157	1	415	321	94	478	95	61	31
	WITH 20 EMP. OR MORE....DO..	323	140	140	-	183	168	15	308	15	4	9
	ALL EMPLOYEES:											
	TOTAL.....DO..	57 618	42 500	(D)	(D)	15 118	(D)	(D)	56 193	1 425	508	832
	PAYROLL.....$1,000..	371 026	278 426	(D)	(D)	92 600	(D)	(D)	363 269	7 757	2 882	4 476
	VALUE ADDED, ADJUSTED.....DO..	695 276	519 326	(D)	(D)	175 950	(D)	(D)	679 751	15 525	5 677	9 242
	VALUE OF SHIPMENTS.....DO..	1 218 247	884 035	(D)	(D)	334 212	(D)	(D)	1 189 224	29 023	10 236	17 796
3461	METAL STAMPINGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	2 574	331	325	6	2 243	1 590	653	1 915	659	486	161
	WITH 20 EMP. OR MORE....DO..	1 116	291	285	6	825	776	49	1 061	55	20	27
	ALL EMPLOYEES:											
	TOTAL.....DO..	132 179	68 782	68 355	427	63 397	58 431	4 966	126 786	5 393	2 924	1 982
	PAYROLL.....$1,000..	772 557	417 027	414 768	2 259	355 530	331 605	23 925	746 373	26 184	13 238	10 384
	VALUE ADDED, ADJUSTED.....DO..	1 368 993	752 988	749 191	3 797	616 005	569 020	46 985	1 318 211	50 782	25 592	20 657
	VALUE OF SHIPMENTS.....DO..	2 678 996	1 533 469	1 523 869	9 600	1 145 527	1 061 190	84 337	2 585 059	93 937	44 686	41 419
3471	PLATING AND POLISHING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	3 023	145	134	11	2 878	1 491	1 387	1 625	1 398	1 024	352
	WITH 20 EMP. OR MORE....DO..	677	90	84	6	587	513	74	597	80	36	39
	ALL EMPLOYEES:											
	TOTAL.....DO..	44 962	6 191	5 867	324	38 771	30 856	7 915	36 723	8 239	5 003	2 999
	PAYROLL.....$1,000..	223 504	32 808	31 394	1 414	190 696	155 784	34 912	187 178	36 326	21 691	13 284
	VALUE ADDED, ADJUSTED.....DO..	370 202	61 037	58 494	2 543	309 165	246 856	62 309	305 350	64 852	38 388	24 253
	VALUE OF SHIPMENTS.....DO..	517 572	87 861	84 247	3 614	429 711	347 382	82 329	431 629	85 943	50 518	32 109
3479	METAL COATING, ENGRAVING, ETC.											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 258	99	95	4	1 159	589	570	684	574	460	110
	WITH 20 EMP. OR MORE....DO..	276	68	66	2	208	183	25	249	27	10	15
	ALL EMPLOYEES:											
	TOTAL.....DO..	20 669	6 358	6 264	94	14 311	11 325	2 986	17 589	3 080	1 777	1 241
	PAYROLL.....$1,000..	107 110	36 035	35 530	505	71 075	58 338	12 737	93 868	13 242	7 601	5 342
	VALUE ADDED, ADJUSTED.....DO..	184 546	63 206	62 238	968	121 340	96 487	24 853	158 725	25 821	15 122	10 294
	VALUE OF SHIPMENTS.....DO..	322 139	144 674	142 881	1 793	177 465	142 244	35 221	285 125	37 014	20 503	15 873
3481	FABRICATED WIRE PRODUCTS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 567	234	229	5	1 333	823	510	1 052	515	396	109
	WITH 20 EMP. OR MORE....DO..	557	175	171	4	382	359	23	530	27	15	10
	ALL EMPLOYEES:											
	TOTAL.....DO..	55 514	25 207	24 991	216	30 307	26 962	3 345	51 953	3 561	2 414	923
	PAYROLL.....$1,000..	297 626	145 575	144 710	865	152 051	137 691	14 360	282 401	15 225	10 176	3 613
	VALUE ADDED, ADJUSTED.....DO..	539 137	278 076	275 928	2 148	261 061	232 311	28 750	508 239	30 898	19 367	8 099
	VALUE OF SHIPMENTS.....DO..	1 030 876	544 134	539 927	4 207	486 742	434 865	51 877	974 792	56 084	37 284	13 901

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
34	FABRICATED METAL PRODUCTS--CONTINUED											
3491	METAL BARRELS, DRUMS AND PAILS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	145	72	71	1	73	59	14	130	15	13	2
	WITH 20 EMP. OR MORE....DO..	93	56	55	1	37	36	1	91	2	2	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	10 508	7 401	(D)	(D)	3 107	(D)	(D)	10 361	147	(D)	(D)
	PAYROLL.....$1,000..	66 614	47 933	(D)	(D)	18 683	(D)	(D)	65 989	627	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	119 617	83 642	(D)	(D)	35 975	(D)	(D)	118 878	739	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	303 423	221 221	(D)	(D)	82 202	(D)	(D)	299 038	4 385	(D)	(D)
3492	SAFES AND VAULTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	32	7	7	-	25	14	11	21	11	7	4
	WITH 20 EMP. OR MORE....DO..	15	6	6	-	9	8	1	14	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	3 346	2 976	2 976	-	370	324	46	3 300	46	14	32
	PAYROLL.....$1,000..	21 782	19 565	19 565	-	2 217	1 969	248	21 534	248	101	147
	VALUE ADDED, ADJUSTED.....DO..	56 223	51 723	51 723	-	4 500	3 743	757	55 466	757	218	539
	VALUE OF SHIPMENTS.....DO..	78 012	71 079	71 079	-	6 933	5 657	1 276	76 736	1 276	368	908
3493	STEEL SPRINGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	96	24	24	-	72	47	25	71	25	16	9
	WITH 20 EMP. OR MORE....DO..	49	20	20	-	29	25	4	45	4	2	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	6 287	4 563	4 563	-	1 724	1 525	199	6 088	199	111	88
	PAYROLL.....$1,000..	41 321	30 391	30 391	-	10 930	9 802	1 128	40 193	1 128	645	483
	VALUE ADDED, ADJUSTED.....DO..	69 305	49 069	49 069	-	20 236	17 956	2 280	67 025	2 280	1 179	1 101
	VALUE OF SHIPMENTS.....DO..	157 704	121 714	121 714	-	35 990	31 980	4 010	153 694	4 010	2 023	1 987
3494	VALVES AND PIPE FITTINGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	646	194	191	3	452	351	101	542	104	77	25
	WITH 20 EMP. OR MORE....DO..	374	170	167	3	204	198	6	365	9	3	6
	ALL EMPLOYEES:											
	TOTAL.....DO..	80 407	60 816	60 029	787	19 591	18 668	923	78 697	1 710	1 104	(D)
	PAYROLL.....$1,000..	500 009	377 418	373 518	3 900	122 591	118 023	4 568	491 541	8 468	5 525	(D)
	VALUE ADDED, ADJUSTED.....DO..	942 700	711 524	703 599	7 925	231 176	221 374	9 802	924 973	17 727	11 546	(D)
	VALUE OF SHIPMENTS.....DO..	1 588 509	1 193 908	1 181 284	12 624	394 601	377 613	16 988	1 558 897	29 612	19 825	(D)
3496	COLLAPSIBLE TUBES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	24	10	10	-	14	12	2	22	2	1	1
	WITH 20 EMP. OR MORE....DO..	19	10	10	-	9	9	-	19	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	3 984	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	PAYROLL.....$1,000..	18 804	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	30 562	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	51 027	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3497	METAL FOIL AND LEAF											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	67	25	25	-	42	32	10	57	10	6	3
	WITH 20 EMP. OR MORE....DO..	40	21	21	-	19	17	2	38	2	-	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	4 981	3 916	3 916	-	1 065	986	79	4 902	79	17	(D)
	PAYROLL.....$1,000..	32 438	26 194	26 194	-	6 244	5 837	407	32 031	407	124	(D)
	VALUE ADDED, ADJUSTED.....DO..	63 486	52 317	52 317	-	11 169	10 166	1 003	62 483	1 003	315	(D)
	VALUE OF SHIPMENTS.....DO..	180 567	149 718	149 718	-	30 849	28 467	2 382	178 185	2 382	1 248	(D)
3498	FABRICATED PIPE AND FITTINGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	349	77	77	-	272	183	89	260	89	70	17
	WITH 20 EMP. OR MORE....DO..	146	63	63	-	83	74	9	137	9	4	5
	ALL EMPLOYEES:											
	TOTAL.....DO..	13 007	7 778	7 778	-	5 229	4 604	625	12 382	625	366	(D)
	PAYROLL.....$1,000..	79 087	48 993	48 993	-	30 094	26 585	3 509	75 578	3 509	2 067	(D)
	VALUE ADDED, ADJUSTED.....DO..	144 598	89 041	89 041	-	55 557	49 084	6 473	138 125	6 473	4 007	(D)
	VALUE OF SHIPMENTS.....DO..	305 640	190 949	190 949	-	114 691	101 021	13 670	291 970	13 670	8 270	(D)
3499	FABRICATED METAL PRODUCTS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 277	133	131	2	1 144	729	415	860	417	326	84
	WITH 20 EMP. OR MORE....DO..	346	90	90	-	256	236	20	326	20	10	8
	ALL EMPLOYEES:											
	TOTAL.....DO..	28 302	10 922	(D)	(D)	17 380	(D)	(D)	26 071	2 231	1 446	647
	PAYROLL.....$1,000..	151 919	64 790	(D)	(D)	87 129	(D)	(D)	142 370	9 549	6 079	2 857
	VALUE ADDED, ADJUSTED.....DO..	299 326	137 102	(D)	(D)	162 224	(D)	(D)	279 122	20 204	11 801	6 688
	VALUE OF SHIPMENTS.....DO..	573 185	267 388	(D)	(D)	305 797	(D)	(D)	536 044	37 141	22 311	11 897
35	MACHINERY, EXCEPT ELECTRICAL											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	33 703	3 198	3 110	88	30 505	16 273	14 232	19 383	14 320	11 068	3 058
	WITH 20 EMP. OR MORE..DO..	8 426	2 593	2 560	33	5 833	5 362	471	7 922	504	203	260
	ALL EMPLOYEES:											
	TOTAL.....DO..	1 459 377	979 413	976 695	2 718	479 964	409 238	70 726	1 385 933	73 444	46 522	23 363
	PAYROLL.....$1,000..	9 570 984	6 548 158	6 530 844	17 314	3 022 826	2 646 999	375 827	9 177 843	393 141	236 953	135 520
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	1 045 075	677 322	675 159	2 163	367 753	308 765	58 988	983 924	61 151	38 615	19 781
	MAN-HOURS.....1,000..	2 151 057	1 379 186	1 374 269	4 917	771 871	650 642	121 229	2 024 911	126 146	78 434	42 136
	WAGES.....$1,000..	6 209 341	4 111 259	4 097 993	13 266	2 098 082	1 786 456	311 626	5 884 449	324 892	196 407	113 606
	VALUE ADDED, ADJUSTED...DO..	17 310 599	12 132 939	12 099 200	33 739	5 177 660	4 459 255	718 405	16 558 455	752 144	448 182	264 588
	CAPITAL EXPEND., NEW[3]...DO..	783 076	547 450	546 686	764	235 626	195 715	39 911	742 401	40 675	27 017	11 853

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies				Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership	Corporate	Total[2]	Individual	Partnership
35	MACHINERY, EXCEPT ELECTRICAL--CONTINUED											
3511	STEAM ENGINES AND TURBINES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	22	17	17	-	5	5	-	22	-	-	-
	WITH 20 EMP. OR MORE....DO..	21	17	17	-	4	4	-	21	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	30 917	30 600	30 600	-	317	317	-	30 917	-	-	-
	PAYROLL.....$1,000..	237 519	235 478	235 478	-	2 041	2 041	-	237 519	-	-	-
	VALUE ADDED, ADJUSTED.....DO..	379 875	375 969	375 969	-	3 906	3 906	-	379 875	-	-	-
	VALUE OF SHIPMENTS.....DO..	616 416	610 133	610 133	-	6 283	6 283	-	616 416	-	-	-
3519	INTERNAL COMBUSTION ENGINES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	143	68	68	-	75	50	25	118	25	21	3
	WITH 20 EMP. OR MORE....DO..	81	63	63	-	18	18	-	81	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	55 687	54 302	54 302	-	1 385	1 270	115	55 572	115	99	(D)
	PAYROLL.....$1,000..	371 800	363 904	363 904	-	7 896	7 388	508	371 292	508	440	(D)
	VALUE ADDED, ADJUSTED.....DO..	733 628	721 523	721 523	-	12 105	10 994	1 111	732 517	1 111	939	(D)
	VALUE OF SHIPMENTS.....DO..	1 473 574	1 445 706	1 445 706	-	27 868	25 693	2 175	1 471 399	2 175	1 819	(D)
3522	FARM MACHINERY AND EQUIPMENT											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 568	224	208	16	1 344	796	548	1 004	564	420	127
	WITH 20 EMP. OR MORE....DO..	558	180	174	6	378	338	40	512	46	18	22
	ALL EMPLOYEES:											
	TOTAL.....DO..	112 614	84 562	84 068	494	28 052	24 537	3 515	108 605	4 009	2 370	1 240
	PAYROLL.....$1,000..	689 122	549 412	546 926	2 486	139 710	124 278	15 432	671 204	17 918	10 627	5 468
	VALUE ADDED, ADJUSTED.....DO..	1 328 381	1 056 988	1 050 014	6 974	271 393	239 036	32 357	1 289 050	39 331	21 802	12 770
	VALUE OF SHIPMENTS.....DO..	2 842 243	2 254 475	2 241 075	13 400	587 768	519 483	68 285	2 760 558	81 685	46 810	26 568
3531	CONSTRUCTION MACHINERY											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	617	164	164	-	453	316	137	480	137	110	26
	WITH 20 EMP. OR MORE....DO..	305	149	149	-	156	146	10	295	10	6	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	104 520	89 903	89 903	-	14 617	13 463	1 154	103 366	1 154	835	(D)
	PAYROLL.....$1,000..	683 728	593 542	593 542	-	90 186	83 626	6 560	677 168	6 560	4 746	(D)
	VALUE ADDED, ADJUSTED.....DO..	1 301 266	1 137 790	1 137 790	-	163 476	152 328	11 148	1 290 118	11 148	7 692	(D)
	VALUE OF SHIPMENTS.....DO..	2 696 039	2 360 235	2 360 235	-	335 804	311 362	24 442	2 671 597	24 442	17 317	(D)
3532	MINING MACHINERY AND EQUIPMENT											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	204	47	46	1	157	109	48	155	49	37	11
	WITH 20 EMP. OR MORE....DO..	93	40	39	1	53	51	2	90	3	2	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	16 910	13 200	(D)	(D)	3 710	(D)	(D)	16 580	330	263	(D)
	PAYROLL.....$1,000..	109 531	85 904	(D)	(D)	23 627	(D)	(D)	107 477	2 054	1 724	(D)
	VALUE ADDED, ADJUSTED.....DO..	215 406	166 549	(D)	(D)	48 857	(D)	(D)	212 092	3 314	2 817	(D)
	VALUE OF SHIPMENTS.....DO..	417 616	329 923	(D)	(D)	87 693	(D)	(D)	411 332	6 284	5 125	(D)
3533	OIL FIELD MACHINERY											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	408	115	114	1	293	196	97	310	98	65	32
	WITH 20 EMP. OR MORE....DO..	176	87	87	-	89	80	9	167	9	4	5
	ALL EMPLOYEES:											
	TOTAL.....DO..	29 203	22 308	(D)	(D)	6 895	(D)	(D)	28 541	662	333	(D)
	PAYROLL.....$1,000..	184 288	141 994	(D)	(D)	42 294	(D)	(D)	180 484	3 804	1 770	(D)
	VALUE ADDED, ADJUSTED.....DO..	398 152	316 597	(D)	(D)	81 555	(D)	(D)	388 145	10 007	6 115	(D)
	VALUE OF SHIPMENTS.....DO..	666 532	519 356	(D)	(D)	147 176	(D)	(D)	651 097	15 435	8 657	(D)
3534	ELEVATORS AND MOVING STAIRWAYS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	142	37	35	2	105	79	26	114	28	23	5
	WITH 20 EMP. OR MORE....DO..	74	28	27	1	46	44	2	71	3	2	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	12 393	8 951	(D)	(D)	3 442	(D)	(D)	11 994	399	200	199
	PAYROLL.....$1,000..	88 389	63 859	(D)	(D)	24 530	(D)	(D)	85 669	2 720	1 167	1 553
	VALUE ADDED, ADJUSTED.....DO..	201 527	159 405	(D)	(D)	42 122	(D)	(D)	196 202	5 325	2 337	2 988
	VALUE OF SHIPMENTS.....DO..	318 616	244 665	(D)	(D)	73 951	(D)	(D)	308 967	9 649	4 663	4 986
3535	CONVEYORS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	454	79	79	-	375	248	127	327	127	97	28
	WITH 20 EMP. OR MORE....DO..	175	66	66	-	109	105	4	171	4	2	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	20 778	13 853	13 853	-	6 925	6 226	699	20 079	699	501	(D)
	PAYROLL.....$1,000..	140 617	96 579	96 579	-	44 038	40 140	3 898	136 719	3 898	2 703	(D)
	VALUE ADDED, ADJUSTED.....DO..	270 475	188 778	188 778	-	81 697	73 979	7 718	262 757	7 718	5 547	(D)
	VALUE OF SHIPMENTS.....DO..	494 632	347 879	347 879	-	146 753	132 905	13 848	480 784	13 848	9 714	(D)
3536	HOISTS, CRANES, AND MONORAILS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	120	30	30	-	90	77	13	107	13	11	2
	WITH 20 EMP. OR MORE....DO..	56	26	26	-	30	30	-	56	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	9 585	7 327	7 327	-	2 258	2 211	47	9 538	47	(D)	(D)
	PAYROLL.....$1,000..	64 301	48 631	48 631	-	15 670	15 351	319	63 982	319	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	112 327	85 682	85 682	-	26 645	26 069	576	111 751	576	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	220 015	172 164	172 164	-	47 851	46 722	1 129	218 886	1 129	(D)	(D)
3537	INDUSTRIAL TRUCKS AND TRACTORS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	314	49	49	-	265	162	103	211	103	89	12
	WITH 20 EMP. OR MORE....DO..	108	35	35	-	73	67	6	102	6	4	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	17 570	11 726	11 726	-	5 844	5 180	664	16 906	664	491	(D)
	PAYROLL.....$1,000..	110 444	78 261	78 261	-	32 183	29 233	2 950	107 494	2 950	2 157	(D)
	VALUE ADDED, ADJUSTED.....DO..	233 116	169 874	169 874	-	63 242	57 630	5 612	227 504	5 612	4 355	(D)
	VALUE OF SHIPMENTS.....DO..	446 957	325 521	325 521	-	121 436	109 290	12 146	434 811	12 146	9 355	(D)

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
35	MACHINERY, EXCEPT ELECTRICAL--CONTINUED											
3541	METAL-CUTTING MACHINE TOOLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	801	99	95	4	702	447	255	542	259	181	77
	WITH 20 EMP. OR MORE....DO..	269	79	79	-	190	178	12	257	12	4	8
	ALL EMPLOYEES:											
	TOTAL.....DO..	61 058	36 724	36 709	15	24 334	22 712	1 622	59 421	1 637	844	(D)
	PAYROLL.....$1,000..	438 222	265 775	265 698	77	172 447	163 355	9 092	429 053	9 169	4 550	(D)
	VALUE ADDED, ADJUSTED.....DO..	699 341	418 791	418 694	97	280 550	264 938	15 612	683 632	15 709	8 145	(D)
	VALUE OF SHIPMENTS.....DO..	1 060 818	649 800	649 599	201	411 018	386 765	24 253	1 036 364	24 454	12 286	(D)
3542	METAL-FORMING MACHINE TOOLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	366	50	50	-	316	221	95	271	95	71	24
	WITH 20 EMP. OR MORE....DO..	146	43	43	-	103	100	3	143	3	-	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	22 078	11 172	11 172	-	10 906	10 337	569	21 509	569	305	264
	PAYROLL.....$1,000..	161 669	83 088	83 088	-	78 581	75 416	3 165	158 504	3 165	1 610	1 555
	VALUE ADDED, ADJUSTED.....DO..	281 287	135 933	135 933	-	145 354	138 940	6 414	274 873	6 414	3 067	3 347
	VALUE OF SHIPMENTS.....DO..	441 419	216 483	216 483	-	224 936	215 654	9 282	432 137	9 282	4 597	4 685
3544	SPECIAL DIES AND TOOLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	5 896	198	193	5	5 698	3 086	2 612	3 279	2 617	1 932	656
	WITH 20 EMP. OR MORE....DO..	1 133	133	129	4	1 000	902	98	1 031	102	38	58
	ALL EMPLOYEES:											
	TOTAL.....DO..	90 860	18 022	17 888	134	72 838	58 774	14 064	76 662	14 198	8 726	5 149
	PAYROLL.....$1,000..	682 739	146 297	145 375	922	536 442	449 200	87 242	594 575	88 164	51 032	34 625
	VALUE ADDED, ADJUSTED.....DO..	1 029 338	211 347	210 186	1 161	817 991	661 975	156 016	872 161	157 177	90 841	63 008
	VALUE OF SHIPMENTS.....DO..	1 388 794	288 524	286 720	1 804	1 100 270	888 041	212 229	1 174 761	214 033	122 462	87 043
3545	MACHINE TOOL ACCESSORIES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 038	143	139	4	895	573	322	712	326	250	74
	WITH 20 EMP. OR MORE....DO..	347	111	109	2	236	214	22	323	24	14	10
	ALL EMPLOYEES:											
	TOTAL.....DO..	46 994	27 643	27 562	81	19 351	17 210	2 141	44 772	2 222	1 462	(D)
	PAYROLL.....$1,000..	312 799	182 687	182 064	623	130 112	117 885	12 227	299 949	12 850	7 793	(D)
	VALUE ADDED, ADJUSTED.....DO..	559 258	336 079	334 977	1 102	223 179	200 815	22 364	535 792	23 466	13 752	(D)
	VALUE OF SHIPMENTS.....DO..	787 338	471 553	470 167	1 386	315 785	283 273	32 512	753 440	33 898	20 173	(D)
3548	METALWORKING MACHINERY, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	435	80	78	2	355	236	119	314	121	89	27
	WITH 20 EMP. OR MORE....DO..	168	70	69	1	98	89	9	158	10	4	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	38 012	28 860	(D)	(D)	9 152	(D)	(D)	36 821	1 191	597	235
	PAYROLL.....$1,000..	246 242	186 535	(D)	(D)	59 707	(D)	(D)	239 990	6 252	2 697	1 360
	VALUE ADDED, ADJUSTED.....DO..	468 435	359 080	(D)	(D)	109 355	(D)	(D)	455 500	12 935	5 960	2 483
	VALUE OF SHIPMENTS.....DO..	796 327	610 970	(D)	(D)	185 357	(D)	(D)	776 535	19 792	8 713	4 109
3551	FOOD PRODUCTS MACHINERY											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	681	106	104	2	575	393	182	497	184	145	36
	WITH 20 EMP. OR MORE....DO..	279	89	89	-	190	180	10	269	10	3	7
	ALL EMPLOYEES:											
	TOTAL.....DO..	31 684	18 440	(D)	(D)	13 244	(D)	(D)	30 484	1 200	786	408
	PAYROLL.....$1,000..	205 368	122 135	(D)	(D)	83 233	(D)	(D)	198 788	6 580	3 949	2 616
	VALUE ADDED, ADJUSTED.....DO..	380 406	227 439	(D)	(D)	152 967	(D)	(D)	364 909	15 497	8 048	7 401
	VALUE OF SHIPMENTS.....DO..	640 507	378 901	(D)	(D)	261 606	(D)	(D)	614 615	25 892	14 394	11 425
3552	TEXTILE MACHINERY											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	561	84	82	2	477	319	158	401	160	125	31
	WITH 20 EMP. OR MORE....DO..	216	76	74	2	140	129	11	203	13	5	6
	ALL EMPLOYEES:											
	TOTAL.....DO..	36 004	25 993	(D)	(D)	10 011	(D)	(D)	34 844	1 160	614	397
	PAYROLL.....$1,000..	196 379	144 843	(D)	(D)	51 536	(D)	(D)	191 261	5 118	2 630	1 668
	VALUE ADDED, ADJUSTED.....DO..	314 190	227 371	(D)	(D)	86 819	(D)	(D)	304 981	9 209	4 545	3 129
	VALUE OF SHIPMENTS.....DO..	542 684	393 803	(D)	(D)	148 881	(D)	(D)	527 090	15 594	8 007	5 319
3553	WOODWORKING MACHINERY											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	249	34	31	3	215	153	62	184	65	43	21
	WITH 20 EMP. OR MORE....DO..	91	26	25	1	65	60	5	85	6	2	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	12 057	6 143	6 101	42	5 914	5 109	805	11 210	847	408	(D)
	PAYROLL.....$1,000..	72 928	35 934	35 694	240	36 994	32 754	4 240	68 448	4 480	2 887	(D)
	VALUE ADDED, ADJUSTED.....DO..	146 998	79 410	78 931	479	67 588	59 468	8 120	138 399	8 599	5 386	(D)
	VALUE OF SHIPMENTS.....DO..	252 762	136 776	135 636	1 140	115 986	99 014	16 972	234 650	18 112	11 259	(D)
3554	PAPER INDUSTRIES MACHINERY											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	217	44	44	-	173	133	40	177	40	33	7
	WITH 20 EMP. OR MORE....DO..	92	38	38	-	54	53	1	91	1	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	18 605	12 424	12 424	-	6 181	6 006	175	18 430	175	135	40
	PAYROLL.....$1,000..	130 614	87 811	87 811	-	42 803	41 756	1 047	129 567	1 047	827	220
	VALUE ADDED, ADJUSTED.....DO..	217 475	146 359	146 359	-	71 116	69 396	1 720	215 755	1 720	1 299	421
	VALUE OF SHIPMENTS.....DO..	403 925	279 672	279 672	-	124 253	121 180	3 073	400 852	3 073	2 491	582
3555	PRINTING TRADES MACHINERY											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	490	76	74	2	414	294	120	368	122	92	26
	WITH 20 EMP. OR MORE....DO..	136	53	53	-	83	78	5	131	5	1	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	22 952	15 735	(D)	(D)	7 217	(D)	(D)	22 371	581	331	174
	PAYROLL.....$1,000..	159 407	111 330	(D)	(D)	48 077	(D)	(D)	156 362	3 045	1 703	1 052
	VALUE ADDED, ADJUSTED.....DO..	285 879	197 361	(D)	(D)	88 518	(D)	(D)	277 862	8 017	3 906	2 364
	VALUE OF SHIPMENTS.....DO..	448 398	312 737	(D)	(D)	135 661	(D)	(D)	435 504	12 894	6 568	3 749

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies				Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership	Corporate	Total[2]	Individual	Partnership
35	MACHINERY, EXCEPT ELECTRICAL--CONTINUED											
3559	SPECIAL INDUSTRY MACHINES, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 092	152	149	3	940	629	311	778	314	233	74
	WITH 20 EMP. OR MORE....DO..	388	129	126	3	259	239	20	365	23	8	14
	ALL EMPLOYEES:											
	TOTAL.....DO..	50 226	30 506	30 367	139	19 720	17 519	2 201	47 886	2 340	1 427	863
	PAYROLL.....$1,000..	330 127	205 722	204 744	978	124 405	112 709	11 696	317 453	12 674	7 878	4 493
	VALUE ADDED, ADJUSTED.....DO..	572 236	355 142	351 650	3 492	217 094	192 954	24 140	544 604	27 632	15 326	11 777
	VALUE OF SHIPMENTS.....DO..	1 015 014	630 345	625 510	4 835	384 669	343 552	41 117	969 062	45 952	24 768	20 502
3561	PUMPS AND COMPRESSORS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	642	165	162	3	477	334	143	496	146	123	23
	WITH 20 EMP. OR MORE....DO..	267	142	141	1	125	123	2	264	3	1	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	61 322	49 398	49 355	43	11 924	11 297	627	60 652	670	472	198
	PAYROLL.....$1,000..	395 769	321 609	321 499	110	74 160	71 143	3 017	392 642	3 127	2 179	948
	VALUE ADDED, ADJUSTED.....DO..	768 787	626 639	626 620	19	142 148	135 709	6 439	762 329	6 458	4 718	1 740
	VALUE OF SHIPMENTS.....DO..	1 419 081	1 164 628	1 164 561	67	254 453	241 714	12 739	1 406 275	12 806	8 560	4 246
3562	BALL AND ROLLER BEARINGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	125	64	63	1	61	49	12	112	13	8	4
	WITH 20 EMP. OR MORE....DO..	93	60	59	1	33	32	1	91	2	-	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	52 316	48 899	(D)	(D)	3 417	(D)	(D)	52 088	228	21	(D)
	PAYROLL.....$1,000..	348 700	329 011	(D)	(D)	19 689	(D)	(D)	347 479	1 221	111	(D)
	VALUE ADDED, ADJUSTED.....DO..	627 694	596 689	(D)	(D)	31 005	(D)	(D)	624 807	2 887	317	(D)
	VALUE OF SHIPMENTS.....DO..	998 784	946 120	(D)	(D)	52 664	(D)	(D)	994 164	4 620	422	(D)
3564	BLOWERS AND FANS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	237	48	46	2	189	135	54	181	56	49	5
	WITH 20 EMP. OR MORE....DO..	97	43	42	1	54	52	2	94	3	-	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	15 244	10 586	(D)	(D)	4 658	(D)	(D)	14 852	392	200	(D)
	PAYROLL.....$1,000..	94 090	65 401	(D)	(D)	28 689	(D)	(D)	91 858	2 232	1 115	(D)
	VALUE ADDED, ADJUSTED.....DO..	180 801	126 920	(D)	(D)	53 881	(D)	(D)	175 764	5 037	2 201	(D)
	VALUE OF SHIPMENTS.....DO..	315 285	223 318	(D)	(D)	91 967	(D)	(D)	306 614	8 671	4 347	(D)
3565	INDUSTRIAL PATTERNS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 209	24	20	4	1 185	415	770	435	774	576	192
	WITH 20 EMP. OR MORE....DO..	106	10	8	2	96	83	13	91	15	4	11
	ALL EMPLOYEES:											
	TOTAL.....DO..	9 914	949	(D)	(D)	8 965	(D)	(D)	8 424	3 490	1 856	1 630
	PAYROLL.....$1,000..	75 605	7 951	(D)	(D)	67 654	(D)	(D)	51 795	23 810	11 535	12 245
	VALUE ADDED, ADJUSTED.....DO..	112 587	11 181	(D)	(D)	101 406	(D)	(D)	70 902	41 685	21 043	20 575
	VALUE OF SHIPMENTS.....DO..	140 696	13 369	(D)	(D)	127 327	(D)	(D)	88 684	52 012	26 793	25 135
3566	POWER TRANSMISSION EQUIPMENT											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	532	108	106	2	424	304	120	410	122	81	34
	WITH 20 EMP. OR MORE....DO..	272	97	97	-	175	159	16	256	16	3	9
	ALL EMPLOYEES:											
	TOTAL.....DO..	46 670	31 654	(D)	(D)	15 016	(D)	(D)	45 127	1 543	483	493
	PAYROLL.....$1,000..	303 314	209 332	(D)	(D)	93 982	(D)	(D)	294 242	9 072	2 540	3 095
	VALUE ADDED, ADJUSTED.....DO..	555 710	386 463	(D)	(D)	169 247	(D)	(D)	539 063	16 647	5 359	4 407
	VALUE OF SHIPMENTS.....DO..	888 641	616 523	(D)	(D)	272 118	(D)	(D)	862 061	26 580	9 031	7 172
3567	INDUSTRIAL FURNACES AND OVENS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	238	49	47	2	189	144	45	191	47	36	10
	WITH 20 EMP. OR MORE....DO..	93	40	39	1	53	53	-	92	1	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	12 118	7 623	(D)	(D)	4 495	(D)	(D)	11 777	341	121	(D)
	PAYROLL.....$1,000..	83 738	52 364	(D)	(D)	31 374	(D)	(D)	81 724	2 014	715	(D)
	VALUE ADDED, ADJUSTED.....DO..	143 009	90 870	(D)	(D)	52 139	(D)	(D)	138 855	4 154	1 303	(D)
	VALUE OF SHIPMENTS.....DO..	279 058	180 297	(D)	(D)	98 761	(D)	(D)	270 996	8 062	2 622	(D)
3569	GENERAL INDUSTRY MACHINES, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	777	115	111	4	662	483	179	594	183	141	32
	WITH 20 EMP. OR MORE....DO..	277	96	95	1	181	170	11	265	12	6	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	35 559	21 702	21 670	32	13 857	12 553	1 304	34 223	1 336	815	328
	PAYROLL.....$1,000..	240 816	156 264	156 073	191	84 552	77 744	6 808	233 817	6 999	4 014	1 957
	VALUE ADDED, ADJUSTED.....DO..	424 084	267 342	267 016	326	156 742	143 709	13 033	410 725	13 359	7 599	4 094
	VALUE OF SHIPMENTS.....DO..	691 280	429 796	429 398	398	261 484	238 707	22 777	668 105	23 175	13 615	6 784
3571	COMPUTING AND RELATED MACHINES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	248	94	92	2	154	118	36	210	38	30	7
	WITH 20 EMP. OR MORE....DO..	139	88	87	1	51	50	1	137	2	1	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	96 370	90 476	(D)	(D)	5 894	(D)	(D)	96 167	203	143	(D)
	PAYROLL.....$1,000..	703 231	665 785	(D)	(D)	37 446	(D)	(D)	702 010	1 221	788	(D)
	VALUE ADDED, ADJUSTED.....DO..	1 101 484	1 038 386	(D)	(D)	63 098	(D)	(D)	1 098 932	2 552	1 618	(D)
	VALUE OF SHIPMENTS.....DO..	2 019 714	1 925 913	(D)	(D)	93 801	(D)	(D)	2 016 223	3 491	2 276	(D)
3572	TYPEWRITERS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	21	14	14	-	7	6	1	20	1	1	-
	WITH 20 EMP. OR MORE....DO..	16	13	13	-	3	3	-	16	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	18 023	17 900	17 900	-	123	(D)	(D)	(D)	(D)	(D)	-
	PAYROLL.....$1,000..	102 885	102 162	102 162	-	723	(D)	(D)	(D)	(D)	(D)	-
	VALUE ADDED, ADJUSTED.....DO..	243 190	242 546	242 546	-	644	(D)	(D)	(D)	(D)	(D)	-
	VALUE OF SHIPMENTS.....DO..	315 385	313 753	313 753	-	1 632	(D)	(D)	(D)	(D)	(D)	-

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
35	MACHINERY, EXCEPT ELECTRICAL--CONTINUED											
3576	SCALES AND BALANCES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	85	15	15	-	70	47	23	62	23	20	3
	WITH 20 EMP. OR MORE....DO..	35	12	12	-	23	22	1	34	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	5 765	3 736	3 736	-	2 029	1 922	107	5 658	107	55	52
	PAYROLL.....$1,000..	35 052	23 171	23 171	-	11 881	11 312	569	34 483	569	263	306
	VALUE ADDED, ADJUSTED.....DO..	64 362	43 033	43 033	-	21 329	20 254	1 075	62 287	1 075	466	609
	VALUE OF SHIPMENTS.....DO..	98 491	63 754	63 754	-	34 737	33 040	1 697	96 794	1 697	794	903
3579	OFFICE MACHINES, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	161	38	38	-	123	90	33	128	33	27	6
	WITH 20 EMP. OR MORE....DO..	75	33	33	-	42	40	2	73	2	1	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	16 980	13 919	13 919	-	3 061	2 809	252	16 728	252	84	168
	PAYROLL.....$1,000..	104 053	87 346	87 346	-	16 707	15 556	1 151	102 902	1 151	409	742
	VALUE ADDED, ADJUSTED.....DO..	224 654	197 543	197 543	-	27 111	25 064	2 047	222 607	2 047	691	1 356
	VALUE OF SHIPMENTS.....DO..	349 210	301 680	301 680	-	47 530	44 264	3 266	345 944	3 266	1 147	2 119
3581	AUTOMATIC VENDING MACHINES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	158	25	25	-	133	95	38	120	38	30	6
	WITH 20 EMP. OR MORE....DO..	68	21	21	-	47	43	4	64	4	2	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 672	8 022	8 022	-	3 650	3 206	444	11 228	444	259	(D)
	PAYROLL.....$1,000..	64 791	46 007	46 007	-	18 784	16 885	1 899	62 892	1 899	1 008	(D)
	VALUE ADDED, ADJUSTED.....DO..	121 365	90 081	90 081	-	31 284	27 879	3 405	117 960	3 405	1 823	(D)
	VALUE OF SHIPMENTS.....DO..	242 335	174 666	174 666	-	63 334	55 628	7 706	230 294	7 706	4 255	(D)
3582	COMMERCIAL LAUNDRY EQUIPMENT											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	115	20	19	1	95	66	29	85	30	23	7
	WITH 20 EMP. OR MORE....DO..	58	19	19	-	39	38	1	57	1	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	6 542	3 702	(D)	(D)	2 840	(D)	(D)	(D)	(D)	136	19
	PAYROLL.....$1,000..	37 929	21 433	(D)	(D)	16 496	(D)	(D)	(D)	(D)	805	134
	VALUE ADDED, ADJUSTED.....DO..	70 771	38 828	(D)	(D)	31 943	(D)	(D)	(D)	(D)	1 965	308
	VALUE OF SHIPMENTS.....DO..	136 757	76 188	(D)	(D)	60 569	(D)	(D)	(D)	(D)	3 090	719
3585	REFRIGERATION MACHINERY											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	698	152	152	-	546	401	145	553	145	112	33
	WITH 20 EMP. OR MORE....DO..	347	133	133	-	214	206	8	339	8	2	6
	ALL EMPLOYEES:											
	TOTAL.....DO..	72 330	53 667	53 667	-	18 663	17 745	918	71 412	918	537	381
	PAYROLL.....$1,000..	432 583	329 393	329 393	-	103 244	98 874	4 370	438 267	4 370	2 639	1 731
	VALUE ADDED, ADJUSTED.....DO..	892 686	708 961	708 961	-	183 725	173 804	9 921	882 765	9 921	5 467	4 454
	VALUE OF SHIPMENTS.....DO..	1 928 001	1 530 854	1 530 854	-	397 147	377 355	19 792	1 908 209	19 792	11 058	8 734
3586	MEASURING AND DISPENSING PUMPS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	43	15	15	-	28	23	5	38	5	4	-
	WITH 20 EMP. OR MORE....DO..	27	15	15	-	12	10	2	25	2	2	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	6 768	5 847	5 847	-	921	841	80	6 688	80	(D)	-
	PAYROLL.....$1,000..	41 732	36 400	36 400	-	5 332	5 001	331	41 401	331	(D)	-
	VALUE ADDED, ADJUSTED.....DO..	91 713	82 147	82 147	-	9 566	9 081	485	91 228	485	(D)	-
	VALUE OF SHIPMENTS.....DO..	159 487	141 358	141 358	-	18 129	17 040	1 089	158 398	1 089	(D)	-
3589	SERVICE INDUSTRY MACHINES, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	506	61	61	-	445	297	148	358	148	127	19
	WITH 20 EMP. OR MORE....DO..	142	51	51	-	91	83	8	134	8	3	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	15 257	7 925	7 925	-	7 332	6 408	924	14 333	924	663	(D)
	PAYROLL.....$1,000..	96 834	51 459	51 459	-	45 375	40 263	5 112	91 722	5 112	3 470	(D)
	VALUE ADDED, ADJUSTED.....DO..	192 379	104 604	104 604	-	87 775	77 813	9 962	182 417	9 962	6 804	(D)
	VALUE OF SHIPMENTS.....DO..	378 300	206 555	206 555	-	171 745	153 226	18 519	359 781	18 519	11 823	(D)
3599	MISCELLANEOUS MACHINERY											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	12 090	295	275	20	11 795	4 744	7 051	5 019	7 071	5 613	1 378
	WITH 20 EMP. OR MORE....DO..	1 402	182	178	4	1 220	1 090	130	1 268	134	59	66
	ALL EMPLOYEES:											
	TOTAL.....DO..	135 820	35 014	34 811	303	100 806	72 948	27 858	107 659	28 161	19 851	7 563
	PAYROLL.....$1,000..	793 629	213 403	211 615	1 788	580 226	446 216	134 010	657 831	135 798	92 024	39 561
	VALUE ADDED, ADJUSTED.....DO..	2 036 299	407 239	405 216	2 023	959 088	701 452	257 636	1 106 668	259 659	174 321	78 910
	VALUE OF SHIPMENTS.....DO..	1 366 327	634 283	630 937	3 346	1 402 016	1 026 689	375 327	1 657 626	378 673	255 530	113 537
36	ELECTRICAL MACHINERY											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	9 948	2 450	2 419	31	7 498	5 435	2 063	7 854	2 094	1 721	328
	WITH 20 EMP. OR MORE..DO..	4 722	2 179	2 165	14	2 543	2 440	103	4 605	117	48	49
	ALL EMPLOYEES:											
	TOTAL.....DO..	1 511 819	1 283 042	1 281 401	1 641	228 777	215 362	13 415	1 496 763	15 056	9 381	3 577
	PAYROLL.....$1,000..	9 284 279	8 127 808	8 118 129	9 679	1 156 471	1 096 398	60 073	9 214 527	69 752	40 160	16 951
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	1 043 957	871 364	870 083	1 281	177 993	167 041	10 952	1 037 124	12 233	7 691	2 936
	MAN-HOURS.....1,000..	2 090 531	1 738 450	1 735 957	2 493	352 081	330 741	21 340	2 066 698	23 833	14 [illegible]78	5 724
	WAGES.....$1,000..	5 405 786	4 664 163	4 658 010	6 143	741 623	696 457	45 166	5 354 467	51 319	30 .0	13 200
	VALUE ADDED, ADJUSTED...DO..	17 010 665	14 965 522	14 950 673	14 849	2 045 143	1 926 567	118 576	16 817 240	133 425	79 [illegible]4	35 558
	CAPITAL EXPEND., NEW[3]...DO..	701 947	620 319	619 809	510	81 628	74 874	6 754	694 683	7 264	4 [illegible]32	1 531

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
36	ELECTRICAL MACHINERY--CON.											
3611	ELECTRIC MEASURING INSTRUMENTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	560	102	101	1	458	325	133	426	134	118	14
	WITH 20 EMP. OR MORE....DO..	209	88	88	-	121	117	4	205	4	1	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	44 715	33 317	(D)	(D)	11 398	(D)	(D)	43 694	1 021	552	(D)
	PAYROLL.....$1,000..	273 645	210 556	(D)	(D)	63 089	(D)	(D)	268 410	5 235	2 534	(D)
	VALUE ADDED, ADJUSTED.....DO..	505 309	397 956	(D)	(D)	107 353	(D)	(D)	495 061	10 248	4 905	(D)
	VALUE OF SHIPMENTS.....DO..	749 220	582 900	(D)	(D)	166 320	(D)	(D)	733 828	15 392	7 669	(D)
3612	TRANSFORMERS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	177	66	66	-	111	77	34	143	34	27	7
	WITH 20 EMP. OR MORE....DO..	99	60	60	-	39	38	1	98	1	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	33 365	30 563	30 563	-	2 802	2 594	208	33 157	208	175	33
	PAYROLL.....$1,000..	209 514	196 141	196 141	-	13 373	12 559	814	208 700	814	691	123
	VALUE ADDED, ADJUSTED.....DO..	381 514	359 168	359 168	-	22 346	20 645	1 701	379 813	1 701	1 499	202
	VALUE OF SHIPMENTS.....DO..	722 896	679 399	679 399	-	43 497	40 590	2 907	719 989	2 907	2 604	303
3613	SWITCHGEAR AND SWITCHBOARDS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	400	122	122	-	278	212	66	334	66	56	8
	WITH 20 EMP. OR MORE....DO..	214	111	111	-	103	100	3	211	3	2	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	54 045	44 825	44 825	-	9 220	8 805	(D)	53 630	415	341	(D)
	PAYROLL.....$1,000..	338 860	283 271	283 271	-	55 589	53 361	(D)	336 632	2 228	1 867	(D)
	VALUE ADDED, ADJUSTED.....DO..	647 838	558 204	558 204	-	89 634	85 950	(D)	644 154	3 684	3 022	(D)
	VALUE OF SHIPMENTS.....DO..	1 093 743	915 882	915 882	-	177 861	169 344	(D)	1 085 226	8 517	6 781	(D)
3621	MOTORS AND GENERATORS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	384	171	168	3	213	157	56	325	59	51	6
	WITH 20 EMP. OR MORE....DO..	244	158	155	3	86	80	6	235	9	5	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	94 170	84 361	84 160	201	9 809	9 254	555	93 414	756	386	(D)
	PAYROLL.....$1,000..	583 225	534 281	533 377	904	48 944	46 569	2 375	579 946	3 279	1 655	(D)
	VALUE ADDED, ADJUSTED.....DO..	993 207	913 948	911 171	2 777	79 259	75 185	4 074	986 356	6 851	4 348	(D)
	VALUE OF SHIPMENTS.....DO..	1 709 818	1 568 328	1 563 692	4 636	141 490	134 077	7 413	1 697 769	12 049	7 632	(D)
3622	INDUSTRIAL CONTROLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	427	58	57	1	369	281	88	338	89	79	9
	WITH 20 EMP. OR MORE....DO..	118	51	51	-	67	66	1	117	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	32 990	27 217	(D)	(D)	5 773	(D)	(D)	32 641	349	290	(D)
	PAYROLL.....$1,000..	214 597	180 028	(D)	(D)	34 569	(D)	(D)	212 674	1 923	1 619	(D)
	VALUE ADDED, ADJUSTED.....DO..	450 507	390 594	(D)	(D)	59 913	(D)	(D)	446 844	3 663	3 002	(D)
	VALUE OF SHIPMENTS.....DO..	648 683	549 394	(D)	(D)	99 289	(D)	(D)	641 776	6 907	5 841	(D)
3623	WELDING APPARATUS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	149	42	42	-	107	80	27	122	27	18	7
	WITH 20 EMP. OR MORE....DO..	75	32	32	-	43	40	3	72	3	1	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	9 629	6 421	6 421	-	3 208	2 997	211	9 418	211	69	(D)
	PAYROLL.....$1,000..	72 113	49 488	49 488	-	22 625	21 444	1 181	70 932	1 181	423	(D)
	VALUE ADDED, ADJUSTED.....DO..	162 411	124 293	124 293	-	38 118	35 865	2 253	160 158	2 253	857	(D)
	VALUE OF SHIPMENTS.....DO..	330 227	257 627	257 627	-	72 600	68 064	4 536	325 691	4 536	1 751	(D)
3624	CARBON AND GRAPHITE PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	53	21	21	-	32	27	5	48	5	5	-
	WITH 20 EMP. OR MORE....DO..	40	20	20	-	20	18	2	38	2	2	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	10 123	8 290	8 290	-	1 833	1 643	190	9 933	190	190	-
	PAYROLL.....$1,000..	61 984	51 903	51 903	-	10 081	9 401	680	61 304	680	680	-
	VALUE ADDED, ADJUSTED.....DO..	141 423	126 602	126 602	-	14 821	13 922	899	140 524	899	899	-
	VALUE OF SHIPMENTS.....DO..	226 889	203 661	203 661	-	23 228	21 835	1 393	225 496	1 393	1 393	-
3629	ELECTRIC INDUSTRIAL GOODS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	231	40	39	1	191	147	44	186	45	39	4
	WITH 20 EMP. OR MORE....DO..	109	36	35	1	73	71	2	106	3	1	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	14 041	8 580	(D)	(D)	5 461	(D)	(D)	13 651	390	293	(D)
	PAYROLL.....$1,000..	72 988	47 310	(D)	(D)	25 678	(D)	(D)	71 428	1 560	1 137	(D)
	VALUE ADDED, ADJUSTED.....DO..	141 633	99 546	(D)	(D)	42 087	(D)	(D)	138 642	2 991	1 948	(D)
	VALUE OF SHIPMENTS.....DO..	238 325	162 293	(D)	(D)	76 032	(D)	(D)	233 164	5 161	3 145	(D)
3631	HOUSEHOLD COOKING EQUIPMENT											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	83	25	25	-	58	48	10	73	10	6	4
	WITH 20 EMP. OR MORE....DO..	53	23	23	-	30	30	-	53	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	19 191	13 290	13 290	-	5 901	5 879	22	19 169	22	15	7
	PAYROLL.....$1,000..	111 266	82 596	82 596	-	28 670	28 571	99	111 167	99	71	28
	VALUE ADDED, ADJUSTED.....DO..	230 285	182 720	182 720	-	47 565	47 376	189	230 096	189	138	51
	VALUE OF SHIPMENTS.....DO..	473 453	357 798	357 798	-	115 655	115 140	515	472 938	515	393	122
3632	HOUSEHOLD REFRIGERATORS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	34	19	19	-	15	11	4	30	4	4	-
	WITH 20 EMP. OR MORE....DO..	25	19	19	-	6	6	-	25	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	43 065	41 848	41 848	-	1 217	1 212	5	43 060	5	5	-
	PAYROLL.....$1,000..	279 977	273 336	273 336	-	6 641	6 618	23	279 954	23	23	-
	VALUE ADDED, ADJUSTED.....DO..	631 269	621 719	621 719	-	9 550	9 511	39	631 230	39	39	-
	VALUE OF SHIPMENTS.....DO..	1 306 539	1 280 354	1 280 354	-	26 185	26 093	92	1 306 447	92	92	-

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies				Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership	Corporate	Total[2]	Individual	Partnership
36	ELECTRICAL MACHINERY-CONTINUED											
3633	HOUSEHOLD LAUNDRY EQUIPMENT											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	39	23	23	-	16	12	4	35	4	3	-
	WITH 20 EMP. OR MORE....DO..	28	21	21	-	7	7	-	28	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	18 343	17 656	17 656	-	687	668	19	18 324	19	(D)	-
	PAYROLL.....$1,000..	115 387	111 522	111 522	-	3 865	3 774	91	115 296	91	(D)	-
	VALUE ADDED, ADJUSTED.....DO..	353 863	347 767	347 767	-	6 096	5 933	163	353 700	163	(D)	-
	VALUE OF SHIPMENTS.....DO..	760 161	745 693	745 693	-	14 468	14 060	408	759 753	408	(D)	-
3634	ELECTRIC HOUSEWARES AND FANS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	312	70	70	-	242	183	59	253	59	49	8
	WITH 20 EMP. OR MORE....DO..	136	61	61	-	75	73	2	134	2	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	38 801	31 620	31 620	-	7 181	6 865	316	38 485	316	263	(D)
	PAYROLL.....$1,000..	188 257	158 960	158 960	-	29 297	28 158	1 139	187 118	1 139	961	(D)
	VALUE ADDED, ADJUSTED.....DO..	463 845	404 326	404 326	-	59 519	57 175	2 344	461 501	2 344	1 777	(D)
	VALUE OF SHIPMENTS.....DO..	850 281	728 138	728 138	-	122 143	117 199	4 944	845 337	4 944	3 946	(D)
3635	HOUSEHOLD VACUUM CLEANERS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	34	6	6	-	28	21	7	27	7	7	-
	WITH 20 EMP. OR MORE....DO..	13	6	6	-	7	7	-	13	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	5 682	4 920	4 920	-	762	720	42	5 640	42	42	-
	PAYROLL.....$1,000..	35 524	31 359	31 359	-	4 165	4 000	165	35 359	165	165	-
	VALUE ADDED, ADJUSTED.....DO..	116 137	104 437	104 437	-	11 700	11 409	291	115 846	291	291	-
	VALUE OF SHIPMENTS.....DO..	175 357	150 375	150 375	-	24 982	24 297	685	174 672	685	685	-
3636	SEWING MACHINES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	86	9	8	1	77	46	31	54	32	29	2
	WITH 20 EMP. OR MORE....DO..	17	6	6	-	11	11	-	17	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	7 646	6 684	(D)	(D)	962	(D)	(D)	7 542	104	79	(D)
	PAYROLL.....$1,000..	51 962	46 050	(D)	(D)	5 912	(D)	(D)	51 300	662	494	(D)
	VALUE ADDED, ADJUSTED.....DO..	98 328	87 715	(D)	(D)	10 613	(D)	(D)	97 208	1 120	864	(D)
	VALUE OF SHIPMENTS.....DO..	117 157	100 986	(D)	(D)	16 171	(D)	(D)	115 622	1 535	1 219	(D)
3639	HOUSEHOLD APPLIANCES, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	112	40	40	-	72	56	16	96	16	13	3
	WITH 20 EMP. OR MORE....DO..	67	36	36	-	31	30	1	66	1	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	13 127	10 374	10 374	-	2 753	2 688	65	13 062	65	49	16
	PAYROLL.....$1,000..	81 590	66 497	66 497	-	15 093	14 773	320	81 270	320	238	82
	VALUE ADDED, ADJUSTED.....DO..	204 188	167 157	167 157	-	37 031	36 365	666	203 522	666	449	217
	VALUE OF SHIPMENTS.....DO..	435 458	358 350	358 350	-	77 108	75 330	1 778	433 680	1 778	1 237	541
3641	ELECTRIC LAMPS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	81	43	42	1	38	21	17	63	18	17	1
	WITH 20 EMP. OR MORE....DO..	50	39	39	-	11	11	-	50	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	23 404	22 291	(D)	(D)	1 113	(D)	(D)	23 337	67	(D)	(D)
	PAYROLL.....$1,000..	122 721	118 248	(D)	(D)	4 473	(D)	(D)	122 459	262	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	362 235	354 019	(D)	(D)	8 216	(D)	(D)	361 606	629	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	574 522	560 083	(D)	(D)	14 439	(D)	(D)	573 544	978	(D)	(D)
3642	LIGHTING FIXTURES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 239	118	115	3	1 121	765	356	880	359	273	82
	WITH 20 EMP. OR MORE....DO..	480	98	97	1	382	350	32	447	33	15	17
	ALL EMPLOYEES:											
	TOTAL.....DO..	53 866	26 298	26 232	66	27 568	24 613	2 955	50 845	3 021	1 831	1 064
	PAYROLL.....$1,000..	288 148	154 289	153 903	386	133 859	120 824	13 035	274 727	13 421	7 818	5 051
	VALUE ADDED, ADJUSTED.....DO..	587 834	326 149	326 083	66	261 685	232 462	29 223	558 545	29 289	16 961	11 091
	VALUE OF SHIPMENTS.....DO..	1 159 497	616 934	616 795	139	542 563	479 740	62 823	1 096 535	62 962	36 980	23 328
3643	CURRENT CARRYING DEVICES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	449	84	83	1	365	252	113	335	114	85	26
	WITH 20 EMP. OR MORE....DO..	180	76	75	1	104	95	9	170	10	3	5
	ALL EMPLOYEES:											
	TOTAL.....DO..	35 424	25 482	(D)	(D)	9 942	(D)	(D)	34 531	893	314	452
	PAYROLL.....$1,000..	175 185	129 699	(D)	(D)	45 486	(D)	(D)	170 972	4 213	1 171	2 104
	VALUE ADDED, ADJUSTED.....DO..	355 643	267 564	(D)	(D)	88 079	(D)	(D)	345 836	9 807	2 821	5 524
	VALUE OF SHIPMENTS.....DO..	615 980	460 132	(D)	(D)	155 848	(D)	(D)	596 500	19 480	5 047	10 400
3644	NONCURRENT CARRYING DEVICES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	182	57	56	1	125	107	18	163	19	17	2
	WITH 20 EMP. OR MORE....DO..	103	52	51	1	51	50	1	101	2	1	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	20 290	15 616	(D)	(D)	4 674	(D)	(D)	20 052	238	(D)	(D)
	PAYROLL.....$1,000..	123 576	97 882	(D)	(D)	25 694	(D)	(D)	122 478	1 098	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	253 918	202 338	(D)	(D)	51 580	(D)	(D)	251 576	2 342	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	479 033	376 028	(D)	(D)	103 005	(D)	(D)	472 841	6 192	(D)	(D)
3651	RADIO AND TV RECEIVING SETS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	348	90	90	-	258	189	69	279	69	58	7
	WITH 20 EMP. OR MORE....DO..	178	79	79	-	99	96	3	175	3	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	81 264	70 854	70 854	-	10 410	9 989	421	80 843	421	276	49
	PAYROLL.....$1,000..	411 924	364 855	364 855	-	47 069	45 076	1 993	409 931	1 993	1 179	133
	VALUE ADDED, ADJUSTED.....DO..	911 954	815 725	815 725	-	96 229	93 111	3 118	908 836	3 118	1 906	241
	VALUE OF SHIPMENTS.....DO..	2 254 878	2 073 143	2 073 143	-	181 735	175 174	6 561	2 248 317	6 561	4 652	362

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
36	ELECTRICAL MACHINERY- CONTINUED											
3652	PHONOGRAPH RECORDS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	167	29	29	-	138	93	45	122	45	42	3
	WITH 20 EMP. OR MORE....DO..	60	24	24	-	36	36	-	60	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	9 554	6 884	6 884	-	2 670	2 502	168	9 386	168	163	5
	PAYROLL.....$1,000..	46 981	35 789	35 789	-	11 192	10 509	683	46 298	683	624	59
	VALUE ADDED, ADJUSTED.....DO..	125 388	100 888	100 888	-	24 500	22 506	1 994	123 394	1 994	1 866	128
	VALUE OF SHIPMENTS.....DO..	180 173	139 949	139 949	-	40 224	37 121	3 103	177 070	3 103	2 899	204
3661	TELEPHONE, TELEGRAPH APPARATUS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	90	40	40	-	50	40	10	80	10	7	3
	WITH 20 EMP. OR MORE....DO..	56	40	40	-	16	16	-	56	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	89 465	86 990	86 990	-	2 475	2 434	41	89 424	41	28	13
	PAYROLL.....$1,000..	554 375	540 302	540 302	-	14 073	13 830	243	554 132	243	128	115
	VALUE ADDED, ADJUSTED.....DO..	1 013 792	990 938	990 938	-	22 854	22 279	575	1 013 217	575	261	314
	VALUE OF SHIPMENTS[4].....DO..	1 736 358	1 691 105	1 691 105	-	45 253	44 354	899	1 735 459	899	461	438
3662	RADIO, TV COMMUNICATIONS EQUIPME											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 132	371	366	5	761	616	145	982	150	119	25
	WITH 20 EMP. OR MORE....DO..	635	332	328	4	303	296	7	624	11	4	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	387 384	362 009	361 186	823	25 375	24 494	881	385 680	1 704	645	256
	PAYROLL.....$1,000..	2 840 218	2 686 436	2 680 783	5 653	153 782	149 315	4 467	2 830 098	10 120	3 217	1 364
	VALUE ADDED, ADJUSTED.....DO..	4 327 671	4 070 397	4 063 419	6 978	257 274	249 387	7 887	4 312 806	14 865	6 290	2 013
	VALUE OF SHIPMENTS.....DO..	7 145 600	6 742 108	6 726 012	16 096	403 492	390 088	13 404	7 116 100	29 500	10 945	4 487
3671	ELECTRON TUBES, RECEIVING TYPE											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	42	19	19	-	23	12	11	31	11	10	1
	WITH 20 EMP. OR MORE....DO..	22	18	18	-	4	3	1	21	1	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	25 850	25 217	25 217	-	633	169	464	25 386	464	(D)	(D)
	PAYROLL.....$1,000..	136 768	134 531	134 531	-	2 237	716	1 521	135 247	1 521	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	250 681	247 487	247 487	-	3 194	1 333	1 861	248 820	1 861	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	321 091	317 107	317 107	-	3 984	1 913	2 071	319 020	2 071	(D)	(D)
3672	CATHODE RAY PICTURE TUBES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	151	13	12	1	138	85	53	97	54	47	7
	WITH 20 EMP. OR MORE....DO..	28	8	8	-	20	20	-	28	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	10 916	8 723	(D)	(D)	2 193	(D)	(D)	10 766	150	128	22
	PAYROLL.....$1,000..	66 888	55 805	(D)	(D)	11 083	(D)	(D)	66 196	692	544	148
	VALUE ADDED, ADJUSTED.....DO..	128 354	114 780	(D)	(D)	13 574	(D)	(D)	127 369	985	784	201
	VALUE OF SHIPMENTS.....DO..	269 122	233 253	(D)	(D)	35 869	(D)	(D)	267 009	2 113	1 658	455
3673	ELECTRON TUBES, TRANSMITTING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	57	36	36	-	21	16	5	52	5	5	-
	WITH 20 EMP. OR MORE....DO..	45	34	34	-	11	11	-	45	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	18 704	17 839	17 839	-	865	829	36	18 668	36	36	-
	PAYROLL.....$1,000..	129 296	123 921	123 921	-	5 375	5 183	192	129 104	192	192	-
	VALUE ADDED, ADJUSTED.....DO..	204 614	195 408	195 408	-	9 206	8 811	395	204 219	395	395	-
	VALUE OF SHIPMENTS.....DO..	299 527	286 938	286 938	-	12 589	12 070	519	299 008	519	519	-
3674	SEMICONDUCTORS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	107	58	58	-	49	47	2	105	2	1	1
	WITH 20 EMP. OR MORE....DO..	87	56	56	-	31	31	-	87	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	56 349	52 403	(D)	(D)	3 946	(D)	(D)	(D)	(D)	(D)	(D)
	PAYROLL.....$1,000..	320 875	299 932	(D)	(D)	20 943	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	467 035	430 989	(D)	(D)	36 046	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	687 817	641 328	(D)	(D)	46 489	(D)	(D)	(D)	(D)	(D)	(D)
3679	ELECTRONIC COMPONENTS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 934	441	437	4	1 493	1 129	364	1 566	368	303	53
	WITH 20 EMP. OR MORE....DO..	968	388	386	2	580	562	18	948	20	6	9
	ALL EMPLOYEES:											
	TOTAL.....DO..	176 708	123 416	123 197	219	53 292	51 026	2 266	174 223	2 485	1 586	585
	PAYROLL.....$1,000..	881 920	637 098	636 034	1 064	244 822	235 443	9 379	871 477	10 443	6 222	2 417
	VALUE ADDED, ADJUSTED.....DO..	1 457 433	1 052 264	1 050 815	1 449	405 169	387 805	17 364	1 438 620	18 813	11 866	4 514
	VALUE OF SHIPMENTS.....DO..	2 332 215	1 675 468	1 672 257	3 211	656 747	628 012	28 735	2 300 269	31 946	19 583	7 839
3691	STORAGE BATTERIES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	252	97	93	4	155	76	79	169	83	59	23
	WITH 20 EMP. OR MORE....DO..	120	88	87	1	32	30	2	117	3	1	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	17 512	15 706	15 636	70	1 806	1 494	312	17 130	382	223	(D)
	PAYROLL.....$1,000..	108 700	99 271	98 935	336	9 429	8 030	1 399	106 965	1 735	1 023	(D)
	VALUE ADDED, ADJUSTED.....DO..	244 152	225 475	224 740	735	18 677	15 373	3 304	240 113	4 039	2 403	(D)
	VALUE OF SHIPMENTS.....DO..	516 457	474 923	473 159	1 764	41 534	33 512	8 022	506 671	9 786	5 060	(D)
3692	PRIMARY BATTERIES, DRY AND WET											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	46	31	30	1	15	4	11	34	12	11	1
	WITH 20 EMP. OR MORE....DO..	29	28	28	-	1	1	-	29	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	8 478	8 387	(D)	(D)	91	(D)	(D)	8 423	55	(D)	(D)
	PAYROLL.....$1,000..	40 602	40 215	(D)	(D)	387	(D)	(D)	40 375	227	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	113 787	112 933	(D)	(D)	854	(D)	(D)	113 182	605	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	195 298	193 614	(D)	(D)	1 684	(D)	(D)	194 158	1 140	(D)	(D)

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
36	ELECTRICAL MACHINERY-CONTINUED											
3693	X-RAY APPARATUS AND TUBES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	58	21	20	1	37	28	9	48	10	9	1
	WITH 20 EMP. OR MORE....DO..	30	18	18	-	12	12	-	30	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	6 236	5 241	(D)	(D)	995	(D)	(D)	(D)	(D)	(D)	(D)
	PAYROLL.....$1,000..	43 796	37 841	(D)	(D)	5 955	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	86 534	74 961	(D)	(D)	11 573	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	143 706	124 319	(D)	(D)	19 387	(D)	(D)	(D)	(D)	(D)	(D)
3694	ENGINE ELECTRICAL EQUIPMENT											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	182	44	44	-	138	98	40	142	40	37	3
	WITH 20 EMP. OR MORE....DO..	98	39	39	-	59	58	1	97	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	40 559	33 355	33 355	-	7 204	7 027	177	40 382	177	145	32
	PAYROLL.....$1,000..	250 202	216 077	216 077	-	34 125	33 430	695	249 507	695	616	79
	VALUE ADDED, ADJUSTED.....DO..	496 662	432 239	432 239	-	64 423	63 086	1 337	495 325	1 337	1 232	105
	VALUE OF SHIPMENTS.....DO..	900 663	781 008	781 008	-	119 655	116 880	2 775	897 888	2 775	2 482	293
3699	ELECTRICAL PRODUCTS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	350	44	42	2	306	174	132	216	134	117	17
	WITH 20 EMP. OR MORE....DO..	106	34	34	-	72	68	4	102	4	2	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	10 923	6 365	(D)	(D)	4 558	(D)	(D)	10 367	556	446	110
	PAYROLL.....$1,000..	51 215	32 319	(D)	(D)	18 896	(D)	(D)	48 862	2 353	1 922	431
	VALUE ADDED, ADJUSTED.....DO..	101 221	64 816	(D)	(D)	36 405	(D)	(D)	96 197	5 024	3 450	1 574
	VALUE OF SHIPMENTS.....DO..	190 038	109 692	(D)	(D)	80 346	(D)	(D)	180 323	9 715	7 701	2 014
37	TRANSPORTATION EQUIPMENT											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	7 192	1 375	1 337	38	5 821	3 255	2 566	4 592	2 604	2 066	498
	WITH 20 EMP. OR MORE..DO..	2 863	1 225	1 213	12	1 643	1 524	119	2 737	131	65	54
	ALL EMPLOYEES:											
	TOTAL.....DO..	1 601 158	1 420 351	1 410 100	10 251	180 807	165 250	15 557	1 575 350	25 808	19 461	4 691
	PAYROLL.....$1,000..	11 858 240	10 790 058	10 709 248	80 810	1 068 182	994 585	73 597	11 703 833	154 407	122 274	23 007
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	1 150 082	1 007 861	1 001 841	6 020	142 221	128 910	13 311	1 130 751	19 331	13 910	4 054
	MAN-HOURS.....1,000..	2 450 150	2 156 026	2 143 405	12 621	294 124	266 793	27 331	2 410 198	39 952	28 747	8 433
	WAGES.....$1,000..	7 731 192	6 993 348	6 954 355	38 993	737 844	676 969	60 875	7 631 324	99 868	74 112	19 047
	VALUE ADDED, ADJUSTED...DO..	22 765 674	21 031 042	20 934 187	96 855	1 734 632	1 605 187	129 445	22 539 374	226 300	160 247	43 452
	CAPITAL EXPEND., NEW[3]...DO..	1 022 004	892 576	884 886	7 690	129 428	108 983	20 445	993 869	28 135	23 915	3 844
3713	TRUCK AND BUS BODIES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	610	60	54	6	550	296	254	350	260	186	66
	WITH 20 EMP. OR MORE....DO..	208	49	48	1	159	142	17	190	18	6	7
	ALL EMPLOYEES:											
	TOTAL.....DO..	24 466	11 072	10 986	86	13 394	11 156	2 238	22 142	2 324	1 182	732
	PAYROLL.....$1,000..	133 300	61 758	61 393	365	71 542	61 394	10 148	122 787	10 513	5 482	2 993
	VALUE ADDED, ADJUSTED.....DO..	229 472	104 415	103 185	1 230	125 057	106 692	18 365	209 877	19 595	9 549	5 985
	VALUE OF SHIPMENTS.....DO..	476 733	221 875	220 251	1 624	254 858	215 233	39 625	435 484	41 249	23 114	12 030
3715	TRUCK TRAILERS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	197	47	47	-	150	92	58	139	58	50	8
	WITH 20 EMP. OR MORE....DO..	105	47	47	-	58	57	1	104	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	19 429	14 035	14 035	-	5 394	4 987	407	19 022	407	268	139
	PAYROLL.....$1,000..	112 876	83 754	83 754	-	29 122	27 069	2 053	110 823	2 053	1 307	746
	VALUE ADDED, ADJUSTED.....DO..	205 475	160 531	160 531	-	44 944	40 922	4 022	201 453	4 022	2 643	1 379
	VALUE OF SHIPMENTS.....DO..	515 661	399 701	399 701	-	115 960	107 667	8 293	507 368	8 293	5 504	2 789
3717	MOTOR VEHICLES AND PARTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 958	509	502	7	1 449	916	533	1 418	540	428	105
	WITH 20 EMP. OR MORE....DO..	909	465	461	4	444	411	33	872	37	23	12
	ALL EMPLOYEES:											
	TOTAL.....DO..	649 926	609 530	609 185	345	40 396	37 051	3 345	646 236	3 690	2 564	914
	PAYROLL.....$1,000..	4 947 271	4 726 133	4 724 249	1 884	221 138	205 774	15 364	4 930 023	17 248	11 801	4 512
	VALUE ADDED, ADJUSTED.....DO..	12 345 630	11 914 226	11 904 222	10 004	431 404	398 113	33 291	12 302 335	43 295	23 831	10 795
	VALUE OF SHIPMENTS[4].....DO..	36 181 007	35 344 880	35 330 691	14 189	836 127	771 200	64 927	36 101 891	79 116	48 981	19 987
3721	AIRCRAFT											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	100	45	44	1	55	41	14	85	15	13	-
	WITH 20 EMP. OR MORE....DO..	65	45	44	1	20	19	1	63	2	2	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	302 201	271 000	(D)	(D)	31 201	(D)	(D)	293 411	8 790	(D)	-
	PAYROLL.....$1,000..	2 369 416	2 132 451	(D)	(D)	236 965	(D)	(D)	2 296 989	72 427	(D)	-
	VALUE ADDED, ADJUSTED[6].....DO..	3 542 695	3 213 638	(D)	(D)	329 057	(D)	(D)	3 467 064	75 631	(D)	-
	VALUE OF SHIPMENTS[4 6].....DO..	6 316 531	5 566 431	(D)	(D)	750 100	(D)	(D)	6 194 703	121 828	(D)	-
3722	AIRCRAFT ENGINES AND PARTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	232	102	100	2	130	107	23	207	25	15	9
	WITH 20 EMP. OR MORE....DO..	172	97	96	1	75	68	7	164	8	2	5
	ALL EMPLOYEES:											
	TOTAL.....DO..	190 834	184 138	(D)	(D)	6 696	(D)	(D)	189 716	1 118	146	(D)
	PAYROLL.....$1,000..	1 486 081	1 437 919	(D)	(D)	48 162	(D)	(D)	1 478 759	7 322	980	(D)
	VALUE ADDED, ADJUSTED.....DO..	2 244 317	2 173 688	(D)	(D)	70 629	(D)	(D)	2 233 672	10 645	1 185	(D)
	VALUE OF SHIPMENTS.....DO..	4 100 520	3 989 223	(D)	(D)	111 297	(D)	(D)	4 084 199	16 321	1 474	(D)

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
37	TRANSPORTATION EQUIPMENT--CONTINUED											
3723	AIRCRAFT PROPELLERS AND PARTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	14	6	6	-	8	6	2	12	2	2	-
	WITH 20 EMP. OR MORE....DO..	8	6	6	-	2	2	-	8	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 183	10 977	10 977	-	206	(D)	14	11 169	14	(D)	-
	PAYROLL.....$1,000..	78 712	77 717	77 717	-	995	(D)	71	78 641	71	(D)	-
	VALUE ADDED, ADJUSTED.....DO..	113 433	112 066	112 066	-	1 367	(D)	93	113 340	93	(D)	-
	VALUE OF SHIPMENTS[4].....DO..	190 761	188 425	188 425	-	2 336	(D)	113	190 648	113	(D)	-
3729	AIRCRAFT EQUIPMENT, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 000	244	237	7	756	473	283	710	290	218	67
	WITH 20 EMP. OR MORE....DO..	470	212	210	2	258	241	17	451	19	7	11
	ALL EMPLOYEES:											
	TOTAL.....DO..	175 167	152 829	152 616	213	22 338	20 073	2 265	172 689	2 478	1 497	923
	PAYROLL.....$1,000..	1 319 476	1 171 653	1 170 454	1 199	147 823	132 964	14 859	1 303 418	16 058	9 631	6 128
	VALUE ADDED, ADJUSTED.....DO..	1 966 904	1 740 837	1 739 065	1 772	226 067	204 211	21 856	1 943 276	23 628	12 887	10 395
	VALUE OF SHIPMENTS.....DO..	3 168 607	2 808 878	2 806 509	2 366	359 729	324 728	35 001	3 131 240	37 367	21 681	15 218
3731	SHIP BUILDING AND REPAIRING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	334	75	73	2	259	188	71	261	73	56	16
	WITH 20 EMP. OR MORE....DO..	200	69	69	-	131	122	9	191	9	7	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	114 649	94 559	(D)	(D)	20 090	(D)	(D)	(D)	(D)	844	(D)
	PAYROLL.....$1,000..	782 299	664 743	(D)	(D)	117 556	(D)	(D)	(D)	(D)	3 868	(D)
	VALUE ADDED, ADJUSTED[6]....DO..	1 009 690	842 025	(D)	(D)	167 665	(D)	(D)	(D)	(D)	6 364	(D)
	VALUE OF SHIPMENTS[6].....DO..	1 679 765	1 379 144	(D)	(D)	300 621	(D)	(D)	(D)	(D)	10 785	(D)
3732	BOAT BUILDING AND REPAIRING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 626	86	77	9	1 540	589	951	666	960	792	158
	WITH 20 EMP. OR MORE....DO..	268	64	63	1	204	191	13	254	14	6	7
	ALL EMPLOYEES:											
	TOTAL.....DO..	24 861	9 273	9 102	171	15 588	12 030	3 558	21 132	3 729	2 677	896
	PAYROLL.....$1,000..	116 140	43 827	42 977	850	72 313	58 051	14 262	101 028	15 112	10 814	3 524
	VALUE ADDED, ADJUSTED.....DO..	183 059	67 193	65 465	1 728	115 866	91 530	24 336	156 995	26 064	17 846	6 615
	VALUE OF SHIPMENTS.....DO..	360 208	140 932	137 196	3 736	219 276	174 834	44 442	312 030	48 178	32 823	11 803
3741	LOCOMOTIVES AND PARTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	24	8	8	-	16	12	4	20	4	2	2
	WITH 20 EMP. OR MORE....DO..	12	7	7	-	5	5	-	12	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	14 337	13 868	13 868	-	469	414	55	14 282	55	(D)	(D)
	PAYROLL.....$1,000..	99 696	96 959	96 959	-	2 737	2 509	228	99 468	228	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	186 241	181 051	181 051	-	5 190	4 466	724	185 517	724	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	437 872	429 578	429 578	-	8 294	6 737	1 557	436 315	1 557	(D)	(D)
3742	RAILROAD AND STREET CARS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	78	40	40	-	38	32	6	72	6	5	1
	WITH 20 EMP. OR MORE....DO..	58	39	39	-	19	18	1	57	1	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	30 742	28 741	28 741	-	2 001	1 917	84	30 658	84	(D)	(D)
	PAYROLL.....$1,000..	201 999	189 366	189 366	-	12 633	12 237	396	201 603	396	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	355 230	326 647	326 647	-	28 583	28 007	576	354 654	576	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	927 184	867 664	867 664	-	59 520	58 106	1 414	925 770	1 414	(D)	(D)
3751	MOTORCYCLES, BICYCLES, & PARTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	88	18	18	-	70	45	25	63	25	20	5
	WITH 20 EMP. OR MORE....DO..	33	13	13	-	20	20	-	33	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	9 662	6 466	6 466	-	3 196	3 116	80	9 582	80	65	15
	PAYROLL.....$1,000..	48 425	32 468	32 468	-	15 957	15 666	291	48 134	291	231	60
	VALUE ADDED, ADJUSTED.....DO..	82 245	54 228	54 228	-	28 017	27 542	475	81 770	475	409	66
	VALUE OF SHIPMENTS.....DO..	192 851	126 961	126 961	-	65 890	64 402	1 488	191 363	1 488	1 319	169
3791	TRAILER COACHES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	413	94	93	1	319	204	115	297	116	94	20
	WITH 20 EMP. OR MORE....DO..	252	86	85	1	166	155	11	240	12	6	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	25 669	12 137	(D)	(D)	13 532	(D)	(D)	24 737	932	603	(D)
	PAYROLL.....$1,000..	125 002	62 132	(D)	(D)	62 870	(D)	(D)	121 400	3 602	2 228	(D)
	VALUE ADDED, ADJUSTED.....DO..	232 460	124 891	(D)	(D)	107 569	(D)	(D)	227 195	5 265	3 413	(D)
	VALUE OF SHIPMENTS.....DO..	713 119	366 887	(D)	(D)	346 232	(D)	(D)	695 457	17 662	11 656	(D)
3799	TRANSPORTATION EQUIPMENT, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	522	41	38	3	481	254	227	292	230	185	41
	WITH 20 EMP. OR MORE....DO..	108	26	25	1	82	73	9	98	10	5	5
	ALL EMPLOYEES:											
	TOTAL.....DO..	8 032	1 726	1 690	36	6 306	5 289	1 017	6 979	1 053	728	310
	PAYROLL.....$1,000..	37 547	9 178	9 069	109	28 369	24 267	4 102	33 336	4 211	3 062	1 104
	VALUE ADDED, ADJUSTED.....DO..	68 823	15 606	15 373	233	53 217	45 372	7 845	60 745	8 078	5 777	2 243
	VALUE OF SHIPMENTS.....DO..	167 375	41 111	40 572	539	126 264	107 131	19 133	147 703	19 672	13 885	5 613

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
38	INSTRUMENTS & RELATED PRODUCTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	3 949	707	686	21	3 242	2 116	1 126	2 802	1 147	905	224
	WITH 20 EMP. OR MORE..DO..	1 343	567	563	4	776	722	54	1 285	58	28	27
	ALL EMPLOYEES:											
	TOTAL.....DO..	305 452	239 563	239 002	561	65 889	59 529	6 360	298 531	6 921	4 229	2 476
	PAYROLL.....$1,000..	1 912 472	1 558 943	1 556 346	2 597	353 529	325 183	28 346	1 881 529	30 943	18 569	11 285
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	208 448	159 661	159 254	407	48 787	43 754	5 033	203 008	5 440	3 269	2 017
	MAN-HOURS.....1,000..	416 555	320 900	320 062	838	95 655	85 759	9 896	405 821	10 734	6 401	4 043
	WAGES.....$1,000..	1 100 718	877 813	876 200	1 613	222 905	201 217	21 688	1 077 417	23 301	14 015	8 693
	VALUE ADDED, ADJUSTED...DO..	3 992 131	3 357 666	3 352 207	5 459	634 465	572 865	61 600	3 925 072	67 059	40 718	24 852
	CAPITAL EXPEND., NEW[3]...DO..	191 865	165 671	165 521	150	26 194	23 589	2 605	189 110	2 755	1 792	925
3811	SCIENTIFIC INSTRUMENTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	594	88	85	3	506	361	145	446	148	109	35
	WITH 20 EMP. OR MORE....DO..	213	71	71	-	142	133	9	204	9	5	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	33 084	22 464	22 437	27	10 620	9 640	980	32 077	1 007	598	319
	PAYROLL.....$1,000..	208 171	147 487	147 334	153	60 684	56 048	4 636	203 382	4 789	2 684	1 635
	VALUE ADDED, ADJUSTED.....DO..	358 588	256 939	256 698	241	101 649	92 971	8 678	349 669	8 919	5 449	3 429
	VALUE OF SHIPMENTS.....DO..	553 920	388 710	388 320	390	165 210	151 416	13 794	539 736	14 184	8 337	5 043
3821	MECHANICAL MEASURING DEVICES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	670	140	138	2	530	364	166	502	168	135	32
	WITH 20 EMP. OR MORE....DO..	258	124	122	2	134	128	6	250	8	7	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	62 353	50 433	(D)	(D)	11 920	(D)	(D)	61 148	1 205	981	(D)
	PAYROLL.....$1,000..	388 874	319 570	(D)	(D)	69 304	(D)	(D)	383 566	5 308	4 243	(D)
	VALUE ADDED, ADJUSTED.....DO..	732 529	608 900	(D)	(D)	123 629	(D)	(D)	721 272	11 257	8 842	(D)
	VALUE OF SHIPMENTS.....DO..	1 143 416	952 577	(D)	(D)	190 839	(D)	(D)	1 126 644	16 772	13 198	(D)
3822	AUTOMATIC TEMPERATURE CONTROLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	104	40	40	-	64	49	15	89	15	14	1
	WITH 20 EMP. OR MORE....DO..	54	37	37	-	17	16	1	53	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	31 685	29 489	29 489	-	2 196	2 086	110	31 575	110	(D)	(D)
	PAYROLL.....$1,000..	192 301	181 431	181 431	-	10 870	10 214	656	191 645	656	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	379 091	358 365	358 365	-	20 726	19 799	927	378 164	927	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	527 358	495 781	495 781	-	31 577	30 119	1 458	525 900	1 458	(D)	(D)
3831	OPTICAL INSTRUMENTS AND LENSES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	280	35	34	1	245	154	91	188	92	76	16
	WITH 20 EMP. OR MORE....DO..	79	28	28	-	51	48	3	76	3	2	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 924	7 338	(D)	(D)	4 586	(D)	(D)	11 499	425	290	135
	PAYROLL.....$1,000..	79 131	51 320	(D)	(D)	27 811	(D)	(D)	76 913	2 218	1 508	710
	VALUE ADDED, ADJUSTED.....DO..	131 917	80 844	(D)	(D)	51 073	(D)	(D)	127 448	4 469	3 282	1 187
	VALUE OF SHIPMENTS.....DO..	196 022	123 637	(D)	(D)	72 385	(D)	(D)	189 918	6 104	4 507	1 597
3841	SURGICAL & MEDICAL INSTRUMENTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	294	50	49	1	244	179	65	228	66	52	12
	WITH 20 EMP. OR MORE....DO..	117	46	46	-	71	68	3	114	3	-	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	15 145	9 393	(D)	(D)	5 752	(D)	(D)	14 668	477	166	(D)
	PAYROLL.....$1,000..	83 332	53 654	(D)	(D)	29 678	(D)	(D)	81 600	1 732	707	(D)
	VALUE ADDED, ADJUSTED.....DO..	168 556	112 913	(D)	(D)	55 643	(D)	(D)	164 274	4 282	1 688	(D)
	VALUE OF SHIPMENTS.....DO..	284 014	193 895	(D)	(D)	90 119	(D)	(D)	277 920	6 094	2 750	(D)
3842	SURGICAL APPLIANCES & SUPPLIES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	704	120	110	10	584	339	245	449	255	198	52
	WITH 20 EMP. OR MORE....DO..	162	70	70	-	92	81	11	151	11	6	5
	ALL EMPLOYEES:											
	TOTAL.....DO..	28 267	19 613	19 564	49	8 654	7 322	1 332	26 886	1 381	918	439
	PAYROLL.....$1,000..	161 800	120 588	120 589	208	41 004	35 614	5 390	156 202	5 598	3 710	1 820
	VALUE ADDED, ADJUSTED.....DO..	370 273	295 426	295 019	407	74 847	63 448	11 399	358 467	11 806	7 622	4 023
	VALUE OF SHIPMENTS.....DO..	596 666	471 916	471 271	645	124 750	106 989	17 761	578 260	18 406	11 847	6 369
3843	DENTAL EQUIPMENT AND SUPPLIES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	316	34	34	-	282	154	128	188	128	109	19
	WITH 20 EMP. OR MORE....DO..	66	27	27	-	39	37	2	64	2	-	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	8 008	4 617	4 617	-	3 391	2 936	455	7 553	455	284	171
	PAYROLL.....$1,000..	46 080	26 901	26 901	-	19 179	16 770	2 409	43 671	2 409	1 364	1 045
	VALUE ADDED, ADJUSTED.....DO..	95 876	60 538	60 538	-	35 338	29 957	5 381	90 495	5 381	3 045	2 336
	VALUE OF SHIPMENTS.....DO..	147 805	86 744	86 744	-	61 061	52 631	8 430	139 375	8 430	4 975	3 455
3851	OPHTHALMIC GOODS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	229	44	43	1	185	125	60	168	61	50	9
	WITH 20 EMP. OR MORE....DO..	109	38	37	1	71	64	7	101	8	2	5
	ALL EMPLOYEES:											
	TOTAL.....DO..	20 296	13 578	(D)	(D)	6 718	(D)	(D)	19 602	694	267	(D)
	PAYROLL.....$1,000..	96 361	68 140	(D)	(D)	28 221	(D)	(D)	93 517	2 844	1 043	(D)
	VALUE ADDED, ADJUSTED.....DO..	177 898	130 257	(D)	(D)	47 641	(D)	(D)	171 685	6 213	2 074	(D)
	VALUE OF SHIPMENTS.....DO..	272 687	192 752	(D)	(D)	79 935	(D)	(D)	261 310	11 377	3 769	(D)

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies				Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership	Corporate	Total[2]	Individual	Partnership
38	INSTRUMENTS & RELATED PRODUCTS CONTINUED											
3861	PHOTOGRAPHIC EQUIPMENT											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	538	104	101	3	434	290	144	391	147	113	30
	WITH 20 EMP. OR MORE....DO..	187	81	80	1	106	99	7	179	8	5	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	64 937	56 838	56 803	35	8 099	7 375	724	64 178	759	502	215
	PAYROLL.....$1,000..	498 828	451 405	451 258	147	47 423	43 794	3 629	495 052	3 776	2 491	1 008
	VALUE ADDED, ADJUSTED.....DO..	1 270 132	1 181 511	1 181 246	265	88 621	78 984	9 637	1 260 230	9 902	6 662	2 496
	VALUE OF SHIPMENTS.....DO..	1 851 213	1 694 836	1 693 998	838	156 377	141 256	15 121	1 835 254	15 959	10 740	4 097
3871	WATCHES AND CLOCKS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	167	45	45	-	122	68	54	113	54	40	14
	WITH 20 EMP. OR MORE....DO..	76	39	39	-	37	33	4	72	4	1	3
	ALL EMPLOYEES:											
	TOTAL.....DO..	27 047	24 035	24 035	-	3 012	2 657	355	26 692	355	158	197
	PAYROLL.....$1,000..	144 179	129 923	129 923	-	14 256	12 859	1 397	142 782	1 397	506	891
	VALUE ADDED, ADJUSTED.....DO..	288 053	260 721	260 721	-	27 332	23 899	3 433	284 620	3 433	1 387	2 046
	VALUE OF SHIPMENTS.....DO..	511 168	459 918	459 918	-	51 250	45 842	5 408	505 760	5 408	2 488	2 920
3872	WATCHCASES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	53	7	7	-	46	33	13	40	13	9	4
	WITH 20 EMP. OR MORE....DO..	22	6	6	-	16	15	1	21	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	2 706	1 765	1 765	-	941	888	53	2 653	53	15	38
	PAYROLL.....$1,000..	13 415	8 316	8 316	-	5 099	4 883	216	13 199	216	76	140
	VALUE ADDED, ADJUSTED.....DO..	19 218	11 252	11 252	-	7 966	7 496	470	18 748	470	121	349
	VALUE OF SHIPMENTS.....DO..	33 620	19 270	19 270	-	14 350	13 337	1 013	32 607	1 013	270	743
39	MISCELLANEOUS MANUFACTURING											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	14 723	1 131	1 078	53	13 592	6 933	6 659	8 011	6 712	5 169	1 433
	WITH 20 EMP. OR MORE..DO..	3 618	861	842	19	2 757	2 479	278	3 321	297	110	151
	ALL EMPLOYEES:											
	TOTAL.....DO..	390 760	168 132	166 157	1 975	222 628	188 523	34 105	354 680	36 080	21 378	12 296
	PAYROLL.....$1,000..	1 812 104	832 235	824 336	7 899	979 869	853 889	125 980	1 678 225	133 879	76 706	48 187
	PRODUCTION WORKERS:											
	TOTAL.....NUMBER..	315 017	132 676	130 985	1 691	182 341	153 623	28 718	284 608	30 409	17 932	10 548
	MAN-HOURS.....1,000..	613 227	261 656	258 499	3 157	351 571	296 514	55 057	555 013	58 214	34 271	20 481
	WAGES.....$1,000..	1 253 518	561 772	555 909	5 863	691 746	590 345	101 401	1 146 254	107 264	62 236	39 274
	VALUE ADDED, ADJUSTED...DO..	3 562 361	1 731 250	1 715 603	15 647	1 831 111	1 569 046	262 065	3 284 649	277 712	158 156	105 042
	CAPITAL EXPEND., NEW[3]...DO..	131 033	61 055	60 360	695	69 978	58 467	11 511	118 827	12 206	7 745	3 554
3911	JEWELRY, PRECIOUS METAL											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 438	38	35	3	1 400	699	701	734	704	510	186
	WITH 20 EMP. OR MORE....DO..	218	29	27	2	189	162	27	189	29	6	22
	ALL EMPLOYEES:											
	TOTAL.....DO..	23 551	7 614	7 517	97	15 937	12 721	3 216	20 238	3 313	1 571	1 647
	PAYROLL.....$1,000..	125 610	45 463	45 042	421	80 147	65 220	14 927	110 262	15 348	6 948	7 961
	VALUE ADDED, ADJUSTED.....DO..	234 925	91 261	90 373	888	143 664	113 337	30 327	203 710	31 215	13 876	16 382
	VALUE OF SHIPMENTS.....DO..	481 943	184 567	182 869	1 698	297 376	232 817	64 559	415 686	66 257	30 437	33 669
3912	JEWELERS' FINDINGS & MATERIALS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	228	9	9	-	219	131	88	140	88	71	16
	WITH 20 EMP. OR MORE....DO..	67	9	9	-	58	55	3	64	3	1	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	4 816	1 546	1 546	-	3 270	2 895	375	4 441	375	262	(D)
	PAYROLL.....$1,000..	20 836	6 709	6 709	-	14 127	12 917	1 210	19 626	1 210	828	(D)
	VALUE ADDED, ADJUSTED.....DO..	33 958	10 917	10 917	-	23 041	20 693	2 348	31 610	2 348	1 611	(D)
	VALUE OF SHIPMENTS.....DO..	72 833	21 840	21 840	-	50 993	46 850	4 143	68 690	4 143	2 957	(D)
3913	LAPIDARY WORK											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	318	8	8	-	310	68	242	76	242	190	52
	WITH 20 EMP. OR MORE....DO..	15	5	5	-	10	8	2	13	2	2	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	1 535	392	392	-	1 143	591	552	983	552	399	153
	PAYROLL.....$1,000..	8 289	2 530	2 530	-	5 759	3 424	2 335	5 954	2 335	1 555	780
	VALUE ADDED, ADJUSTED.....DO..	16 129	5 495	5 495	-	10 634	4 815	5 819	10 310	5 819	2 271	3 548
	VALUE OF SHIPMENTS.....DO..	65 094	26 055	26 055	-	39 039	18 994	20 045	45 049	20 045	7 023	13 022
3914	SILVERWARE AND PLATED WARE											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	209	29	28	1	180	116	64	144	65	52	12
	WITH 20 EMP. OR MORE....DO..	87	27	26	1	60	57	3	83	4	2	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	13 249	9 240	(D)	(D)	4 009	(D)	(D)	12 873	376	231	(D)
	PAYROLL.....$1,000..	70 924	52 272	(D)	(D)	18 652	(D)	(D)	69 405	1 519	879	(D)
	VALUE ADDED, ADJUSTED.....DO..	130 735	97 172	(D)	(D)	33 563	(D)	(D)	127 856	2 879	1 596	(D)
	VALUE OF SHIPMENTS.....DO..	237 999	180 808	(D)	(D)	57 191	(D)	(D)	232 511	5 488	3 436	(D)
3931	MUSICAL INSTRUMENTS AND PARTS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	320	64	64	-	256	147	109	211	109	88	20
	WITH 20 EMP. OR MORE....DO..	126	58	58	-	68	59	9	117	9	5	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	20 095	13 376	13 376	-	6 719	5 886	833	19 262	833	590	(D)
	PAYROLL.....$1,000..	103 029	69 334	69 334	-	33 695	30 343	3 352	99 677	3 352	2 396	(D)
	VALUE ADDED, ADJUSTED.....DO..	179 035	121 516	121 516	-	57 519	49 992	7 527	171 508	7 527	5 200	(D)
	VALUE OF SHIPMENTS.....DO..	314 407	215 825	215 825	-	98 582	83 330	15 252	299 155	15 252	10 929	(D)

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
39	MISCELLANEOUS MANUFACTURING--CONTINUED											
3941	GAMES AND TOYS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	797	100	97	3	697	456	241	553	244	188	51
	WITH 20 EMP. OR MORE....DO..	351	87	85	2	264	247	17	332	19	7	9
	ALL EMPLOYEES:											
	TOTAL.....DO..	51 835	26 730	26 502	228	25 105	23 505	1 600	50 007	1 828	1 099	536
	PAYROLL.....$1,000..	206 744	113 667	112 861	806	93 077	88 298	4 779	201 159	5 585	3 151	1 610
	VALUE ADDED, ADJUSTED.....DO..	444 101	240 126	238 645	1 481	203 975	192 522	11 453	431 167	12 934	7 002	4 224
	VALUE OF SHIPMENTS.....DO..	796 631	425 714	422 733	2 981	370 917	348 865	22 052	771 598	25 033	12 607	8 595
3942	DOLLS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	410	23	22	1	387	211	176	233	177	143	31
	WITH 20 EMP. OR MORE....DO..	160	18	17	1	142	122	20	139	21	9	10
	ALL EMPLOYEES:											
	TOTAL.....DO..	16 213	2 888	(D)	(D)	13 325	(D)	(D)	14 179	2 034	1 011	796
	PAYROLL.....$1,000..	58 991	10 201	(D)	(D)	48 790	(D)	(D)	53 527	5 464	2 387	2 475
	VALUE ADDED, ADJUSTED.....DO..	138 100	21 106	(D)	(D)	116 994	(D)	(D)	126 405	11 695	5 495	4 994
	VALUE OF SHIPMENTS.....DO..	247 942	36 822	(D)	(D)	211 120	(D)	(D)	228 479	19 463	8 783	8 987
3943	CHILDREN'S VEHICLES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	64	12	12	-	52	39	13	51	13	10	3
	WITH 20 EMP. OR MORE....DO..	31	10	10	-	21	21	-	31	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	4 542	2 170	2 170	-	2 372	2 340	32	4 510	32	29	3
	PAYROLL.....$1,000..	19 436	8 786	8 786	-	10 650	10 548	102	19 334	102	92	10
	VALUE ADDED, ADJUSTED.....DO..	35 304	17 063	17 063	-	18 241	18 102	139	35 165	139	128	11
	VALUE OF SHIPMENTS.....DO..	77 507	40 103	40 103	-	37 404	37 066	338	77 169	338	299	39
3949	SPORTING & ATHLETIC GOODS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 419	144	138	6	1 275	669	606	807	612	464	141
	WITH 20 EMP. OR MORE....DO..	345	106	104	2	239	220	19	324	21	7	10
	ALL EMPLOYEES:											
	TOTAL.....DO..	40 543	20 933	20 674	259	19 610	16 584	3 026	37 258	3 285	1 911	1 240
	PAYROLL.....$1,000..	175 777	98 166	97 153	1 013	77 611	67 731	9 880	164 884	10 893	5 671	4 862
	VALUE ADDED, ADJUSTED.....DO..	360 980	215 656	213 689	1 967	145 324	126 411	18 913	340 100	20 880	10 660	9 729
	VALUE OF SHIPMENTS.....DO..	704 718	409 506	405 784	3 722	295 212	254 215	40 997	659 999	44 719	23 315	19 646
3951	PENS AND MECHANICAL PENCILS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	139	23	23	-	116	83	33	106	33	26	6
	WITH 20 EMP. OR MORE....DO..	67	21	21	-	46	44	2	65	2	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	11 562	6 943	6 943	-	4 619	4 309	310	11 252	310	118	(D)
	PAYROLL.....$1,000..	54 968	38 494	38 494	-	16 474	15 122	1 352	53 616	1 352	405	(D)
	VALUE ADDED, ADJUSTED.....DO..	119 069	75 927	75 927	-	43 142	41 056	2 086	116 983	2 086	1 057	(D)
	VALUE OF SHIPMENTS.....DO..	185 464	109 354	109 354	-	76 110	71 021	5 089	180 375	5 089	2 560	(D)
3952	LEAD PENCILS AND ART GOODS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	144	23	22	1	121	73	48	95	49	36	12
	WITH 20 EMP. OR MORE....DO..	57	19	19	-	38	37	1	56	1	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	6 868	3 609	(D)	(D)	3 259	(D)	(D)	6 677	191	145	(D)
	PAYROLL.....$1,000..	31 944	16 873	(D)	(D)	15 071	(D)	(D)	31 182	762	594	(D)
	VALUE ADDED, ADJUSTED.....DO..	64 731	34 378	(D)	(D)	30 353	(D)	(D)	62 921	1 810	1 306	(D)
	VALUE OF SHIPMENTS.....DO..	121 630	66 411	(D)	(D)	55 219	(D)	(D)	117 832	3 798	2 849	(D)
3953	MARKING DEVICES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	616	55	52	3	561	240	321	292	324	245	73
	WITH 20 EMP. OR MORE....DO..	90	36	35	1	54	48	6	83	7	2	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	7 625	2 950	2 909	41	4 675	3 583	1 092	6 492	1 133	680	330
	PAYROLL.....$1,000..	41 367	16 680	16 415	265	24 687	19 609	5 078	36 024	5 343	3 166	1 466
	VALUE ADDED, ADJUSTED.....DO..	85 572	43 149	42 714	435	42 423	31 122	11 301	73 836	11 736	6 996	3 678
	VALUE OF SHIPMENTS.....DO..	126 845	62 474	61 886	588	64 371	47 966	16 405	109 852	16 993	10 148	5 223
3955	CARBON PAPER AND INKED RIBBONS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	102	35	35	-	67	52	15	87	15	12	3
	WITH 20 EMP. OR MORE....DO..	52	28	28	-	24	23	1	51	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	5 539	4 095	4 095	-	1 444	1 327	117	5 422	117	70	47
	PAYROLL.....$1,000..	31 480	23 298	23 298	-	8 182	7 552	630	30 850	630	336	294
	VALUE ADDED, ADJUSTED.....DO..	68 353	53 443	53 443	-	14 910	13 717	1 193	67 160	1 193	608	585
	VALUE OF SHIPMENTS.....DO..	155 513	118 647	118 647	-	36 866	33 785	3 081	152 432	3 081	1 498	1 583
3961	COSTUME JEWELRY											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	912	37	34	3	875	442	433	476	436	331	98
	WITH 20 EMP. OR MORE....DO..	204	30	28	2	174	152	22	180	24	8	14
	ALL EMPLOYEES:											
	TOTAL.....DO..	21 655	7 637	7 489	148	14 018	11 355	2 663	18 844	2 811	1 648	1 001
	PAYROLL.....$1,000..	85 268	33 483	32 837	646	51 785	43 979	7 806	76 816	8 452	4 536	3 170
	VALUE ADDED, ADJUSTED.....DO..	150 999	62 994	61 693	1 301	88 005	71 340	16 665	133 033	17 966	9 498	6 955
	VALUE OF SHIPMENTS.....DO..	280 478	103 728	101 465	2 263	176 750	143 408	33 342	244 873	35 605	17 597	15 260
3962	ARTIFICIAL FLOWERS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	384	23	20	3	361	178	183	198	186	134	51
	WITH 20 EMP. OR MORE....DO..	70	4	4	-	66	58	8	62	8	3	5
	ALL EMPLOYEES:											
	TOTAL.....DO..	4 958	370	360	10	4 588	3 641	947	4 001	957	577	(D)
	PAYROLL.....$1,000..	16 338	1 459	1 444	15	14 879	12 364	2 515	13 808	2 530	1 398	(D)
	VALUE ADDED, ADJUSTED.....DO..	29 194	3 130	3 066	64	26 064	21 248	4 816	24 314	4 880	3 038	(D)
	VALUE OF SHIPMENTS.....DO..	60 418	7 548	7 411	137	52 870	42 526	10 344	49 937	10 481	5 642	(D)

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
39	MISCELLANEOUS MANUFACTURING--CONTINUED											
3963	BUTTONS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	290	25	23	2	265	135	130	158	132	95	35
	WITH 20 EMP. OR MORE....DO..	69	22	20	2	47	41	6	61	8	3	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	5 599	2 011	(D)	(D)	3 588	(D)	(D)	4 618	981	490	(D)
	PAYROLL.....$1,000..	23 024	9 274	(D)	(D)	13 750	(D)	(D)	19 845	3 179	1 440	(D)
	VALUE ADDED, ADJUSTED.....DO..	43 751	18 766	(D)	(D)	24 985	(D)	(D)	37 872	5 879	2 810	(D)
	VALUE OF SHIPMENTS.....DO..	81 835	37 131	(D)	(D)	44 704	(D)	(D)	72 101	9 734	4 566	(D)
3964	NEEDLES, PINS, AND FASTENERS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	343	57	57	-	286	185	101	242	101	70	29
	WITH 20 EMP. OR MORE....DO..	149	46	46	-	103	90	13	136	13	3	8
	ALL EMPLOYEES:											
	TOTAL.....DO..	20 271	12 282	12 282	-	7 989	7 080	909	19 362	909	353	(D)
	PAYROLL.....$1,000..	89 431	55 950	55 950	-	33 481	30 527	2 954	86 477	2 954	1 136	(D)
	VALUE ADDED, ADJUSTED.....DO..	190 868	122 336	122 336	-	68 532	62 164	6 368	184 500	6 368	2 523	(D)
	VALUE OF SHIPMENTS.....DO..	337 285	202 231	202 231	-	135 054	120 049	15 005	322 280	15 005	6 056	(D)
3981	BROOMS AND BRUSHES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	643	53	50	3	590	242	348	292	351	270	67
	WITH 20 EMP. OR MORE....DO..	167	48	47	1	119	98	21	145	22	8	8
	ALL EMPLOYEES:											
	TOTAL.....DO..	16 637	8 042	7 717	325	8 595	6 522	2 073	14 239	2 398	1 488	580
	PAYROLL.....$1,000..	73 620	40 086	38 782	1 304	33 534	27 563	5 971	66 345	7 275	4 751	1 763
	VALUE ADDED, ADJUSTED.....DO..	167 866	107 190	104 145	3 045	60 676	49 478	11 198	153 623	14 243	9 521	4 006
	VALUE OF SHIPMENTS.....DO..	321 129	198 426	193 165	5 261	122 703	99 023	23 680	292 188	28 941	19 390	7 873
3982	HARD SURFACE FLOOR COVERINGS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	16	7	7	-	9	7	2	14	2	1	1
	WITH 20 EMP. OR MORE....DO..	13	7	7	-	6	5	1	12	1	1	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	6 192	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	PAYROLL.....$1,000..	38 965	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE ADDED, ADJUSTED.....DO..	118 832	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	VALUE OF SHIPMENTS.....DO..	204 112	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3983	MATCHES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	26	17	17	-	9	8	1	25	1	1	-
	WITH 20 EMP. OR MORE....DO..	23	17	17	-	6	6	-	23	-	-	-
	ALL EMPLOYEES:											
	TOTAL.....DO..	4 647	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	PAYROLL.....$1,000..	21 659	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	VALUE ADDED, ADJUSTED.....DO..	38 666	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	VALUE OF SHIPMENTS.....DO..	64 131	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
3984	CANDLES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	111	12	10	2	99	53	46	63	48	33	14
	WITH 20 EMP. OR MORE....DO..	32	8	8	-	24	23	1	31	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	3 167	1 393	(D)	(D)	1 774	(D)	(D)	2 981	186	101	(D)
	PAYROLL.....$1,000..	13 225	6 377	(D)	(D)	6 848	(D)	(D)	12 628	597	282	(D)
	VALUE ADDED, ADJUSTED.....DO..	26 306	12 900	(D)	(D)	13 406	(D)	(D)	24 876	1 430	592	(D)
	VALUE OF SHIPMENTS.....DO..	45 515	21 139	(D)	(D)	24 376	(D)	(D)	42 594	2 921	1 350	(D)
3987	LAMP SHADES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	228	5	5	-	223	98	125	103	125	98	24
	WITH 20 EMP. OR MORE....DO..	48	4	4	-	44	37	7	41	7	2	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	3 583	610	610	-	2 973	2 295	678	2 905	678	311	331
	PAYROLL.....$1,000..	12 775	2 365	2 365	-	10 410	8 332	2 078	10 697	2 078	876	1 087
	VALUE ADDED, ADJUSTED.....DO..	20 476	3 665	3 665	-	16 811	12 649	4 162	16 314	4 162	1 653	2 302
	VALUE OF SHIPMENTS.....DO..	37 485	6 301	6 301	-	31 184	23 834	7 350	30 135	7 350	2 874	3 717
3988	MORTICIANS' GOODS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	617	77	76	1	540	327	213	403	214	156	51
	WITH 20 EMP. OR MORE....DO..	224	60	59	1	164	141	23	200	24	14	10
	ALL EMPLOYEES:											
	TOTAL.....DO..	17 283	6 053	(D)	(D)	11 230	(D)	(D)	15 497	1 786	1 122	621
	PAYROLL.....$1,000..	86 218	33 343	(D)	(D)	52 875	(D)	(D)	79 339	6 879	4 149	2 597
	VALUE ADDED, ADJUSTED.....DO..	158 422	63 003	(D)	(D)	95 419	(D)	(D)	144 916	13 506	7 791	5 555
	VALUE OF SHIPMENTS.....DO..	290 036	106 811	(D)	(D)	183 225	(D)	(D)	258 805	31 231	16 434	14 221
3992	FURS, DRESSED AND DYED											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	132	7	7	-	125	82	43	89	43	31	11
	WITH 20 EMP. OR MORE....DO..	26	3	3	-	23	22	1	25	1	-	1
	ALL EMPLOYEES:											
	TOTAL.....DO..	2 577	330	330	-	2 247	2 107	140	2 437	140	69	(D)
	PAYROLL.....$1,000..	20 092	1 984	1 984	-	18 108	17 347	761	19 331	761	396	(D)
	VALUE ADDED, ADJUSTED.....DO..	30 240	4 078	4 078	-	26 162	24 379	1 783	28 457	1 783	906	(D)
	VALUE OF SHIPMENTS.....DO..	42 007	5 336	5 336	-	36 671	33 441	3 230	38 777	3 230	1 347	(D)
3993	SIGNS AND ADVERTISING DISPLAYS											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	3 206	131	120	11	3 075	1 413	1 662	1 533	1 673	1 335	324
	WITH 20 EMP. OR MORE....DO..	570	89	87	2	481	444	37	531	39	18	18
	ALL EMPLOYEES:											
	TOTAL.....DO..	43 476	7 160	6 915	245	36 316	29 673	6 643	36 588	6 888	4 596	2 047
	PAYROLL.....$1,000..	242 593	42 051	40 867	1 184	200 542	168 989	31 553	209 856	32 737	21 549	9 730
	VALUE ADDED, ADJUSTED.....DO..	407 478	65 405	62 978	2 427	342 073	278 493	63 580	341 471	66 007	42 835	20 420
	VALUE OF SHIPMENTS.....DO..	646 772	111 159	107 139	4 020	535 613	438 703	96 910	545 842	100 930	65 259	31 972

See footnotes at end of table.

TABLE 2. Selected Statistics for Operating Manufacturing Establishments, by Type of Operation and Legal Form of Organization for Major Industry Groups and Industries: 1963--Continued

Code	Item	All establishments	Type of operation[1]						Legal form of organization[1]			
			Multiunit companies			Single unit companies			Corporate	Noncorporate		
			Total	Corporate ownership or control	Noncorporate ownership	Total	Corporate ownership or control	Noncorporate ownership		Total[2]	Individual	Partnership
39	MISCELLANEOUS MANUFACTURING--CONTINUED											
3995	UMBRELLAS, PARASOLS, AND CANES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	112	8	8	-	104	51	53	59	53	39	13
	WITH 20 EMP. OR MORE....DO..	35	8	8	-	27	22	5	30	5	1	4
	ALL EMPLOYEES:											
	TOTAL.....DO..	2 604	770	770	-	1 834	1 422	412	2 192	412	191	(D)
	PAYROLL.....$1,000..	10 151	3 088	3 088	-	7 063	5 827	1 236	8 915	1 236	506	(D)
	VALUE ADDED, ADJUSTED.....DO..	16 101	4 707	4 707	-	11 394	9 081	2 313	13 788	2 313	1 006	(D)
	VALUE OF SHIPMENTS.....DO..	36 630	10 857	10 857	-	25 773	20 507	5 266	31 364	5 266	2 277	(D)
3999	MISCELLANEOUS PRODUCTS, NEC											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	1 499	109	99	10	1 390	728	662	827	672	540	109
	WITH 20 EMP. OR MORE....DO..	322	62	60	2	260	237	23	297	25	6	13
	ALL EMPLOYEES:											
	TOTAL.....DO..	30 138	9 725	9 570	155	20 413	17 043	3 370	26 613	3 525	2 293	932
	PAYROLL.....$1,000..	129 350	48 863	48 291	572	80 487	69 912	10 575	118 203	11 147	7 168	3 371
	VALUE ADDED, ADJUSTED.....DO..	252 170	95 621	94 399	1 222	156 549	131 523	25 026	225 922	26 248	17 707	7 905
	VALUE OF SHIPMENTS.....DO..	458 471	175 408	173 256	2 152	283 063	236 759	46 304	410 015	48 456	30 092	17 284
1900	ORDNANCE AND ACCESSORIES											
	ESTABLISHMENTS:											
	TOTAL.....NUMBER..	258	115	115	-	143	106	37	221	37	33	4
	WITH 20 EMP. OR MORE....DO..	163	104	104	-	59	54	5	158	5	3	2
	ALL EMPLOYEES:											
	TOTAL.....DO..	245 934	239 195	239 195	-	6 739	6 204	535	245 399	535	278	257
	PAYROLL.....$1,000..	1 956 954	1 919 899	1 919 899	-	37 055	34 871	2 184	1 954 770	2 184	1 078	1 106
	VALUE ADDED, ADJUSTED.....DO..	2 882 521	2 816 938	2 816 938	-	65 583	60 241	5 342	2 877 179	5 342	1 995	3 347
	VALUE OF SHIPMENTS[4].....DO..	4 784 047	4 677 246	4 677 246	-	106 801	95 543	11 258	4 772 789	11 258	4 776	6 482

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1]All data are based on reports for individual manufacturing establishments and not on a company basis. Each establishment of multiestablishment companies is classified by its primary industrial activity. For this reason the statistics presented in this table cannot be compared directly with tabulations in which the whole corporation or company is the reporting unit and the entire company is classified in one industry, for example, the "Statistics of Income, Corporation Income Tax Returns" compiled by the Bureau of Internal Revenue, U.S. Treasury Department. Establishments were classified as part of a multiunit company when the company operated two or more establishments, of which at least one was a manufacturing establishment.

[2]The difference between the sum of individual and partnership forms of organization and the total for non-corporate is represented by other non-corporate forms including cooperatives, establishments operated by estate administrators, trusteeships, receiverships, public and quasipublic organizations, and in addition, classification errors for small establishments that were not corrected since they were not statistically significant. This residual category therefore is not directly comparable to that shown for earlier years.

[3]Includes expenditures for plants in operation and for plants under construction but not yet in operation.

[4]These figures includes extensive duplication arising from shipments between establishments in the same industry classification. See Introduction for a more detailed discussion.

[5]Value of production rather than value of shipments. Consequently, the formula for computing adjusted value added by manufacture was modified to include only changes in work-in-process inventories between the beginning and end of the year.

[6]Value of work done rather than value of shipments. Therefore, value added has not been adjusted for any inventory change.

Manufacturers' Inventories

Chapter 4

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INVENTORIES

See Introduction for discussion on how census was conducted. The value of beginning-of-year and end-of-year inventories, respectively, held by each manufacturing establishment was obtained in the 1963 census. Separate inventory figures were requested for (1) finished products, (2) work in process, and (3) materials, supplies, fuel and other inventories.

Respondents were asked to report their inventories at approximate current costs if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the value of inventories aggregate for all establishments in an industry is not precise. The figures on change in inventory between the beginning and the end of the year are of considerably greater significance.

In using inventory data by stage of fabrication for all industries and at the 2-digit industry level, the following should be noted: An item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. (For example, the finished product inventories of a steel mill would be reported as raw materials by a stamping plant.) Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and all manufacturing which are merely aggregates of figures reported by establishments in specified industries. Further, the total finished-goods inventory for "all manufacturing" includes items that are not finished manufactured products.

For a few industries in the food group, there are special problems in the handling of inventories by stage of fabrication. These are industries in which the products are usually stored under controlled conditions, and the products are aged. Included among such types of products are stemmed and dried tobacco, cheese, and whiskey. It is not clear whether such products should be treated as finished goods, work in process, or material and supplies inventories while in storage. In the cheese and whiskey industries substantial finished-goods inventories have been reported while in the tobacco industries, the bulk of the inventories have been classified as materials and supplies. These data have been summarized in the inventory tables in a consistent manner for the years included in this report.

TABLE 1. Value of Manufacturers' Inventories for Industry Groups and Industries: End of 1963 and 1962

(Thousands of dollars)

Code	Industry	Value of inventories[1] at end of--							
		1963				1962			
		Total	Finished products	Work in process	Materials, supplies, fuels, etc.	Total	Finished products	Work in process	Materials, supplies, fuels, etc.
	All industries, total	59,912,937	20,446,398	18,120,425	21,346,116	58,066,827	19,873,515	17,209,683	20,983,533
20	Food and kindred products	6,760,747	3,785,758	439,048	2,535,941	6,510,720	3,709,908	410,741	2,390,071
21	Tobacco manufactures	2,406,503	107,614	24,735	2,274,154	2,500,521	113,317	27,807	2,359,367
22	Textile mill products	2,567,434	978,141	719,040	870,254	2,530,414	975,140	681,538	873,736
23	Apparel and related products	2,164,991	993,275	395,242	776,475	2,051,474	912,924	384,873	753,677
24	Lumber and wood products	1,352,730	587,903	296,984	467,843	1,335,911	588,752	288,535	458,624
25	Furniture and fixtures	827,228	243,419	202,664	381,145	791,583	233,659	192,019	365,911
26	Paper and allied products	1,759,327	616,283	202,370	940,684	1,698,554	573,674	196,890	927,952
27	Printing and publishing	1,315,098	468,231	314,636	532,231	1,199,039	412,737	282,587	503,719
28	Chemicals and allied products	3,825,760	1,877,874	550,679	1,397,207	3,702,178	1,836,667	523,374	1,342,137
29	Petroleum and coal products	1,818,020	1,112,667	348,570	356,783	1,829,302	1,079,509	371,713	378,080
30	Rubber and plastics products, n.e.c.	1,189,924	625,088	193,101	371,735	1,159,641	613,572	186,790	359,279
31	Leather and leather products	551,861	215,783	134,060	202,018	566,439	216,925	136,184	213,329
32	Stone, clay and glass products	1,522,407	804,464	194,487	523,456	1,471,029	774,805	186,245	509,979
33	Primary metal industries	6,057,254	1,739,440	1,893,725	2,424,089	6,014,043	1,722,432	1,794,362	2,497,250
34	Fabricated metal products	3,954,077	1,134,996	1,329,977	1,489,101	3,783,909	1,093,779	1,246,973	1,443,127
35	Machinery, except electrical	6,803,006	2,061,684	3,027,133	1,714,191	6,554,398	2,017,342	2,868,816	1,668,251
36	Electrical machinery	5,239,708	1,453,815	2,462,976	1,322,924	5,148,799	1,358,692	2,437,313	1,352,794
37	Transportation equipment	7,048,765	791,245	4,300,913	1,956,607	6,553,226	812,470	3,936,877	1,803,859
38	Instruments and related products	1,177,942	348,167	518,271	311,504	1,121,632	340,057	480,026	301,549
39	Miscellaneous manufacturing	1,115,703	470,726	278,179	366,793	1,076,627	451,780	264,392	360,454
19	Ordnance and accessories	454,455	29,825	293,635	130,995	467,388	35,374	311,628	120,388
20	Food and kindred products	6,760,747	3,785,758	439,048	2,535,941	6,510,720	3,709,908	410,741	2,390,071
201	Meat products	597,951	442,646	33,463	121,842	579,413	424,362	35,420	119,631
2011	Meat slaughtering plants	408,068	302,054	26,006	80,008	406,687	294,861	29,461	82,365
2013	Meat processing plants	96,578	67,137	4,127	25,314	91,897	66,374	3,140	22,383
2015	Poultry dressing plants	93,305	73,455	3,330	16,520	80,829	63,127	2,819	14,883
202	Dairies	388,710	197,010	12,174	179,526	386,453	196,738	11,983	177,732
2021	Creamery butter	28,188	20,073	895	7,220	29,899	21,499	982	7,418
2022	Natural and process cheese	106,274	62,990	4,653	38,631	98,922	59,339	4,138	35,445
2023	Condensed and evaporated milk	46,760	31,528	1,503	13,729	50,133	33,649	1,705	14,779
2024	Ice cream and frozen desserts	60,715	24,771	879	35,065	59,314	23,651	842	34,821
2026	Fluid milk	146,773	57,648	4,244	84,881	148,185	58,600	4,316	85,269
203	Canned and frozen foods	1,815,965	1,427,456	95,568	292,941	1,859,746	1,470,211	101,581	287,954
2031	Canned and cured seafoods	88,679	70,394	1,714	16,571	95,578	75,947	1,780	17,851
2032	Canned specialties	223,419	173,088	2,326	48,005	233,239	181,950	3,296	47,993
2033	Canned fruits and vegetables	953,957	813,080	37,570	103,307	986,985	847,193	43,611	96,181
2034	Dehydrated foods products	89,805	50,794	19,782	19,229	87,939	44,897	19,610	23,432
2035	Pickles, sauces, salad dressings	110,417	55,098	14,362	40,957	107,527	53,078	14,592	39,857
2036	Fresh or frozen packaged fish	53,917	42,405	623	10,889	49,664	37,097	600	11,967
2037	Frozen fruits and vegetables	295,771	222,597	19,191	53,983	298,814	230,049	18,092	50,673
204	Grain mills	722,141	223,256	30,272	468,613	702,211	202,858	25,994	473,359
2041	Flour mills	232,221	46,287	1,774	184,160	255,225	46,258	1,240	207,727
2042	Prepared animal feeds	231,410	89,791	14,339	127,280	223,149	82,575	14,390	126,184
2043	Cereal preparations	49,874	21,980	1,532	26,362	44,569	17,986	888	25,695
2044	Rice milling	109,580	23,630	7,330	78,620	86,920	16,752	5,660	64,508
2045	Blended and prepared flour	33,516	13,150	1,080	19,286	34,023	13,893	866	19,264
2046	Wet corn milling	65,540	28,418	4,217	32,905	58,325	25,394	2,950	29,981
205	Bakery products	191,685	31,321	3,871	156,493	184,875	30,113	3,984	150,778
2051	Bread and related products	130,111	7,486	2,350	120,275	125,502	6,657	2,310	116,535
2052	Biscuit, crackers, and cookies	61,574	23,835	1,521	36,218	59,373	23,456	1,674	34,243
206	Sugar	403,066	207,890	29,841	165,335	302,560	172,445	15,027	115,088
2061	Raw cane sugar	24,294	15,722	243	8,329	14,154	6,759	342	7,053
2062	Cane sugar refining	124,599	64,921	18,026	131,652	134,890	41,119	10,572	83,199
2063	Beet sugar	164,173	127,247	11,572	25,354	153,516	124,567	4,113	24,836
207	Candy and related products	355,131	129,061	21,094	204,976	351,301	117,930	18,584	214,787
2071	Confectionery products	191,504	78,255	10,889	102,360	184,839	75,280	8,931	100,628
2072	Chocolate and cocoa products	118,391	44,244	9,274	64,873	122,318	36,439	8,706	77,173
2073	Chewing gum	45,236	6,562	931	37,743	44,144	6,211	947	36,986
208	Beverages	1,263,325	809,056	96,942	357,327	1,217,114	800,574	95,940	320,600
2082	Malt liquors	153,310	25,479	29,205	98,626	149,406	24,832	28,177	96,397
2083	Malt	78,774	25,961	3,238	49,575	78,877	34,176	3,080	41,621
2084	Wines and brandy	119,955	78,687	29,352	11,916	121,080	79,729	30,656	10,695
2085	Distilled liquor, except brandy	682,046	614,117	30,014	37,915	673,363	604,794	29,832	38,737
2086	Bottled and canned soft drinks	125,028	39,990	2,111	82,927	115,313	35,764	2,135	77,414
2087	Flavorings	104,212	24,822	3,022	76,368	79,075	21,279	2,060	55,736

See footnotes at end of table.

TABLE 1 Value of Manufacturers' Inventories for Industry Groups and Industries: End of 1963 and 1962—Continued

(Thousands of dollars)

Code	Industry	Value of inventories[1] at end of--							
		1963				1962			
		Total	Finished products	Work in process	Materials, supplies, fuels, etc.	Total	Finished products	Work in process	Materials, supplies, fuels, etc.
20	Food and kindred products—Con.								
209	Miscellaneous foods and kindred products	1,022,773	318,062	115,823	588,888	927,047	294,677	102,228	530,142
2091	Cottonseed oil mills	153,027	33,010	22,454	97,563	129,836	25,628	19,539	84,669
2092	Soybean oil mills	278,955	54,329	1,873	222,753	223,236	42,577	292	180,367
2093	Vegetable oil mills, n.e.c	52,244	29,340	2,280	20,624	50,593	28,427	317	21,849
2094	Animal and marine fats and oils	29,900	23,397	1,311	5,192	29,880	24,265	717	4,898
2095	Roasted coffee	151,086	54,484	7,818	88,784	139,638	49,018	8,346	82,274
2096	Shortening and cooking oils	165,949	40,973	72,298	52,678	161,894	44,982	66,196	50,716
2097	Manufactured ice	2,718	2,213	15	490	2,776	2,113	19	644
2098	Macaroni and spaghetti	14,815	6,527	644	7,644	15,792	6,763	870	8,159
2099	Food preparations, n.e.c	174,079	73,789	7,130	93,160	173,402	70,904	5,932	96,566
21	Tobacco manufactures	2,406,503	107,614	24,735	2,274,154	2,500,521	113,317	27,807	2,359,367
2111	Cigarettes	1,226,519	22,162	11,926	1,192,431	1,267,241	22,575	13,594	1,231,072
2121	Cigars	61,783	19,828	2,867	39,088	61,441	21,862	2,347	37,232
2131	Chewing and smoking tobacco	41,491	5,748	5,873	29,870	37,885	5,792	5,586	26,477
2141	Tobacco stemming and redrying	1,076,710	59,876	4,069	1,012,765	1,133,954	63,088	6,280	1,064,586
22	Textile mill products	2,567,434	978,141	719,040	870,254	2,530,414	975,140	681,538	873,736
2211	Weaving mills, cotton	625,846	259,045	153,999	212,802	677,316	285,497	151,075	240,744
2221	Weaving mills, synthetics	303,248	105,227	107,282	90,739	292,874	106,231	94,840	91,803
2231	Weaving, finishing mills, wool	187,457	49,676	79,111	58,670	179,667	44,392	78,994	56,281
2241	Narrow fabric mills	55,753	18,659	17,289	19,805	54,863	18,606	17,144	19,113
225	Knitting mills	505,674	223,623	139,968	142,083	478,904	212,214	133,381	133,309
2251	Women's hosiery, except socks	104,441	41,586	43,912	18,943	100,094	40,008	43,070	17,016
2252	Hosiery, n.e.c	78,221	32,930	27,798	17,493	77,706	33,134	27,721	16,851
2253	Knit outerwear mills	135,470	69,134	24,991	41,345	129,635	63,954	25,153	40,528
2254	Knit underwear mills	84,345	46,997	15,656	21,692	76,121	42,045	14,333	19,743
2256	Knit fabric mills	96,942	30,631	26,126	40,185	88,764	30,754	21,457	36,553
2259	Knitting mills, n.e.c	6,255	2,345	1,485	2,425	6,584	2,319	1,647	2,618
226	Textile finishing, except wool	158,551	69,477	37,950	51,125	153,148	70,129	33,804	49,215
2261	Finishing plants, cotton	108,403	57,140	17,589	33,675	107,794	59,006	16,645	32,143
2262	Finishing plants, synthetic	30,988	3,978	16,637	10,373	26,083	3,172	13,239	9,672
2269	Finishing plants, n.e.c	19,160	8,359	3,724	7,077	19,271	7,951	3,920	7,400
227	Floor covering mills	204,991	88,296	54,267	62,428	193,129	80,334	52,070	60,725
2271	Woven carpets and rugs	84,831	32,683	28,608	23,540	83,156	33,225	27,544	22,387
2272	Tufted carpets and rugs	116,256	54,314	24,739	37,203	106,090	46,000	23,688	36,402
2279	Carpets and rugs, n.e.c	3,904	1,299	920	1,685	3,883	1,109	838	1,936
228	Yarn and thread mills	277,962	70,556	80,739	126,667	253,511	67,003	74,533	111,975
2281	Yarn mills, except wool	137,132	30,667	31,829	74,636	130,660	29,532	28,816	72,312
2282	Throwing and winding mills	35,149	7,579	10,821	16,749	28,596	9,296	8,156	11,144
2283	Wool yarn mills	69,468	21,144	21,828	26,496	59,495	18,419	20,601	20,475
2284	Thread mills	36,213	11,166	16,261	8,786	34,760	9,756	16,960	8,044
229	Miscellaneous textile goods	247,952	93,582	48,435	105,935	247,002	90,734	45,697	110,571
2291	Felt goods, n.e.c	19,907	6,249	1,691	11,967	19,944	5,882	1,462	12,600
2292	Lace goods	8,201	2,619	3,158	2,424	7,970	2,408	2,949	2,613
2293	Padding and upholstery filling	16,549	4,262	900	11,387	17,016	3,986	1,044	11,986
2294	Processed textile waste	14,851	5,393	3,089	6,369	15,818	5,398	1,657	8,763
2295	Coated fabric, not rubberized	68,965	26,092	15,515	27,358	66,137	25,689	14,456	25,992
2296	Tire cord and fabric	37,226	14,927	11,729	10,570	38,067	14,235	12,255	11,577
2297	Scouring and combing plants	17,431	4,842	3,216	9,373	16,542	4,368	2,577	9,597
2298	Cordage and twine	38,884	19,267	5,665	13,952	39,420	19,442	5,802	14,176
2299	Textile goods, n.e.c	25,938	9,931	3,472	12,535	26,088	9,326	3,495	13,267
23	Apparel and related products	2,164,991	993,275	395,242	776,475	2,051,474	912,924	384,873	753,677
2311	Men's and boys' suits and coats	288,671	136,443	60,515	91,713	268,669	115,947	60,414	92,308
232	Men's and boys' furnishings	577,605	321,080	76,925	179,600	530,112	283,117	75,852	171,143
2321	Men's dress shirts and nightwear	211,043	108,389	34,721	67,935	189,440	89,554	36,353	63,533
2322	Men's and boys' underwear	22,496	12,883	3,488	6,125	18,111	10,512	2,717	4,882
2323	Men's and boys' neckwear	13,656	6,468	1,708	5,480	14,401	6,829	1,779	5,793
2327	Separate trousers	135,074	78,453	15,040	41,581	126,584	69,522	15,065	41,997
2328	Work clothing	137,039	83,971	14,249	38,819	127,157	79,203	12,355	35,599
2329	Men's and boys' clothing, n.e.c	56,893	29,881	7,600	19,412	53,806	27,151	7,499	19,156
233	Women's and misses' outerwear	445,317	181,945	89,120	174,252	435,894	176,673	88,310	170,911
2331	Blouses	49,944	23,441	10,225	16,278	44,640	20,170	10,419	14,051
2335	Dresses	162,563	60,915	32,549	69,099	158,720	58,489	31,765	68,466
2337	Women's suits, coats and skirts	126,778	48,534	28,727	49,517	126,762	47,393	27,731	51,638
2339	Women's outerwear, n.e.c	106,032	49,055	17,619	39,358	105,772	50,621	18,395	36,756

See footnotes at end of table.

TABLE 1. Value of Manufacturers' Inventories for Industry Groups and Industries: End of 1963 and 1962—Continued

(Thousands of dollars)

Code	Industry	Value of inventories[1] at end of--							
		1963				1962			
		Total	Finished products	Work in process	Materials, supplies, fuels, etc.	Total	Finished products	Work in process	Materials, supplies, fuels, etc.
23	Apparel and related products—Con.								
234	Women's and children's underwear	241,594	111,302	55,635	74,657	225,246	100,727	50,798	73,721
2341	Women's and children's underwear	141,703	64,839	32,000	44,864	134,849	59,442	29,754	45,653
2342	Corsets and allied garments	99,891	46,463	23,635	29,793	90,397	41,285	21,044	28,068
235	Millinery, hats, and caps	38,970	13,897	6,429	18,644	36,868	13,737	5,988	17,143
2351	Millinery	10,062	3,387	1,766	4,909	9,704	3,031	1,804	4,869
2352	Hats and caps	28,908	10,510	4,663	13,735	27,164	10,706	4,184	12,274
236	Children's outerwear	125,288	53,112	25,585	46,591	118,965	51,139	24,566	43,260
2361	Children's dresses and blouses	44,143	18,177	12,002	13,964	41,376	17,098	11,042	13,236
2363	Children's coats and suits	16,364	6,231	2,348	7,785	18,933	7,101	2,777	9,055
2369	Children's outerwear, n.e.c	64,781	28,704	11,235	24,842	58,656	26,940	10,747	20,969
2371	Fur goods	42,862	28,779	3,350	10,733	41,011	27,685	3,027	10,299
238	Miscellaneous apparel	95,279	46,854	16,602	31,823	94,740	45,803	16,986	31,951
2381	Fabric dress and work gloves	26,035	13,409	4,469	8,157	25,773	12,712	4,505	8,556
2384	Robes and dressing gowns	13,582	6,327	3,491	3,764	12,774	5,872	3,344	3,558
2385	Waterproof outergarments	21,010	10,733	3,844	6,433	18,833	9,391	3,686	5,756
2386	Leather and sheeplined clothing	5,472	2,301	854	2,317	4,852	1,991	813	2,048
2387	Apparel belts	10,935	4,597	1,757	4,581	11,378	4,696	1,864	4,818
2389	Apparel, n.e.c	18,245	9,487	2,187	6,571	21,130	11,141	2,774	7,215
239	Fabricated textiles, n.e.c	310,809	100,898	61,200	148,710	300,582	98,442	59,016	143,124
2391	Curtains and draperies	34,686	14,727	4,347	15,612	32,648	13,962	3,761	14,925
2392	Housefurnishings, n.e.c	98,174	40,549	14,410	43,214	94,167	38,978	13,726	41,463
2393	Textile bags	28,260	7,934	2,650	17,676	25,033	7,182	2,657	15,194
2394	Canvas products	28,240	8,528	2,649	17,063	27,314	7,869	3,070	16,375
2395	Pleating and stitching	10,939	2,603	3,053	5,283	10,282	2,652	2,887	4,743
2396	Apparel findings	55,890	7,711	26,845	21,334	53,229	7,716	26,152	19,361
2397	Schiffli machine embroideries	5,900	2,632	917	2,351	5,690	2,499	855	2,336
2399	Textile products, n.e.c	48,720	16,214	6,329	26,177	52,219	17,584	5,908	28,727
24	Lumber and wood products	1,352,730	587,903	296,984	467,843	1,335,911	588,752	288,535	458,624
2411	Logging camps and contractors	99,626	67,344	13,656	18,626	105,882	67,869	17,185	20,828
242	Sawmills and planing mills	641,680	327,230	162,213	152,237	637,919	333,782	159,466	144,671
2421	Sawmills and planing mills	558,622	298,717	144,886	115,019	555,998	302,605	141,955	111,438
2426	Hardwood dimension and flooring	63,941	20,157	12,311	31,473	60,655	21,713	11,495	27,447
2429	Special product sawmills, n.e.c	19,117	8,356	5,016	5,745	21,266	9,464	6,016	5,786
243	Millwork and related products	387,638	107,416	83,776	196,446	367,486	101,644	75,961	189,881
2431	Millwork plants	190,548	50,508	44,083	95,957	183,590	48,956	42,466	92,168
2432	Veneer and plywood plants	144,447	50,268	30,929	63,250	139,816	47,650	25,898	66,268
2433	Prefabricated wood products	52,643	6,640	8,764	37,239	44,080	5,038	7,597	31,445
244	Wooden containers	60,733	16,879	10,202	33,652	61,609	16,142	10,589	34,878
2441	Nailed wooden boxes and shook	25,325	7,020	2,889	15,416	23,394	6,907	2,807	13,680
2442	Wirebound boxes and crates	13,594	4,690	2,036	6,868	13,496	4,712	1,943	6,841
2433	Veneer and plywood containers	5,161	3,645	638	878	4,647	3,212	542	893
2445	Cooperage	16,653	1,524	4,639	10,490	20,072	1,311	5,297	13,464
249	Miscellaneous wood products	163,053	69,034	27,137	66,882	163,015	69,315	25,334	68,366
2491	Wood preserving	61,884	33,122	9,201	19,561	60,544	33,107	7,811	19,626
2499	Wood products, n.e.c	101,169	35,912	17,936	47,321	102,471	36,208	17,523	48,740
25	Furniture and fixtures	827,228	243,419	202,664	381,145	791,583	233,659	192,019	365,911
251	Household furniture	536,701	163,468	114,632	258,601	508,673	153,036	108,785	246,852
2511	Wood furniture not upholstered	285,345	102,993	71,903	110,449	273,432	98,443	68,449	106,540
2512	Wood furniture, upholstered	104,251	19,037	19,197	66,017	95,049	18,196	17,617	59,242
2514	Metal household furniture	69,934	22,507	13,866	33,561	66,686	20,171	12,807	33,708
2515	Mattresses and bedsprings	73,513	17,809	9,014	46,690	69,856	15,053	9,271	45,532
2519	Household furniture, n.e.c	3,658	1,122	652	1,884	3,644	1,173	641	1,830
252	Office furniture	84,368	21,613	27,001	35,754	84,114	20,351	29,050	34,713
2521	Wood office furniture	17,134	4,575	5,709	6,850	16,015	4,139	5,387	6,489
2522	Metal office furniture	67,234	17,038	21,292	28,904	68,099	16,212	23,663	28,224
2531	Public building furniture	55,497	14,038	17,288	24,171	51,357	15,307	14,811	21,239
254	Partitions and fixtures	103,303	26,703	33,131	43,469	100,097	26,066	29,484	44,547
2541	Wood partitions and fixtures	46,496	9,941	17,315	19,240	44,634	9,755	15,399	19,480
2542	Metal partitions and fixtures	56,807	16,762	15,816	24,229	55,463	16,311	14,085	25,067

See footnotes at end of table.

TABLE 1. Value of Manufacturers' Inventories for Industry Groups and Industries: End of 1963 and 1962—Continued

(Thousands of dollars)

Code	Industry	Value of inventories[1] at end of--							
		1963				1962			
		Total	Finished products	Work in process	Materials, supplies, fuels, etc.	Total	Finished products	Work in process	Materials, supplies, fuels, etc.
25	Furniture and fixtures—Con.								
259	Furniture and fixtures, n.e.c.	49,010	18,090	10,614	20,306	48,888	19,286	9,897	19,705
2591	Venetian blinds and shades	34,708	14,946	5,995	13,767	35,191	15,995	5,027	14,169
2599	Furniture and fixtures, n.e.c.	14,302	3,144	4,619	6,539	13,697	3,291	4,870	5,536
26	Paper and allied products	1,759,327	616,283	202,370	940,684	1,698,554	573,674	196,890	927,952
2611	Pulp mills	65,404	19,425	4,220	41,759	70,244	19,830	4,426	45,988
2621	Paper mills, except building	430,219	120,887	38,461	270,871	417,913	115,776	38,026	264,111
2631	Paperboard mills	149,885	36,804	7,323	105,758	151,862	36,662	6,486	108,714
264	Paper and paperboard products	528,821	230,046	61,409	237,376	503,051	209,072	59,809	234,172
2641	Paper coating and glazing	139,029	57,174	19,416	62,439	128,555	51,755	18,977	57,823
2642	Envelopes	43,682	15,776	4,312	23,594	42,920	15,582	4,680	22,658
2643	Bags, except textile bags	134,106	53,109	9,898	71,099	125,683	45,489	9,629	70,565
2644	Wallpaper	8,455	5,925	497	2,033	8,452	6,078	383	1,991
2645	Die cut paper and board	37,356	10,693	5,680	20,993	38,781	10,290	5,373	23,118
2646	Pressed and molded pulp goods	14,105	9,338	316	4,451	12,319	7,933	453	3,933
2647	Sanitary paper products	59,430	33,439	4,223	21,768	54,878	28,190	3,814	22,874
2649	Converted paper products, n.e.c.	92,658	44,592	17,067	30,999	91,465	43,755	16,500	31,210
265	Paperboard containers and boxes	558,503	197,300	88,457	272,746	530,145	182,415	85,495	262,185
2651	Folding paperboard boxes	152,818	70,587	40,551	41,680	146,393	68,183	41,564	36,646
2652	Set-up paperboard boxes	26,788	10,873	3,731	12,184	25,441	9,769	3,466	12,166
2653	Corrugated shipping containers	210,370	37,921	28,380	144,069	197,218	34,985	25,718	136,505
2654	Sanitary food containers	143,164	73,608	11,515	58,041	137,847	65,322	10,471	62,054
2655	Fiber cans, tubes, drums, etc.	25,363	4,311	4,280	16,772	23,246	4,156	4,276	14,814
2661	Building paper and board mills	26,495	11,821	2,500	12,174	25,339	9,909	2,648	12,782
27	Printing and publishing	1,315,098	468,231	314,636	532,231	1,199,039	412,737	282,587	503,719
2711	Newspapers	115,305	3,262	1,724	110,319	117,253	4,294	1,266	111,693
2721	Periodicals	131,358	34,309	21,999	75,050	113,604	26,385	18,491	68,728
273	Books	410,446	264,522	91,676	54,248	363,429	229,798	81,597	52,034
2731	Books, publishing and printing	362,408	255,969	71,379	35,060	318,008	219,918	64,195	33,895
2732	Book printing	48,038	8,553	20,297	19,188	45,421	9,880	17,402	18,139
2741	Miscellaneous publishing	27,176	12,322	6,872	7,982	26,800	12,541	6,184	8,075
275	Commercial printing	416,506	83,240	127,899	205,367	364,774	67,583	112,657	184,536
2751	Printing, except lithographic	245,674	56,265	64,972	124,437	203,888	41,419	53,972	108,497
2752	Printing, lithographic	160,624	26,278	59,331	75,015	151,628	25,449	55,664	70,517
2753	Engraving and plate printing	10,208	697	3,596	5,915	9,258	715	3,021	5,522
2761	Manifold business forms	64,416	15,251	13,250	35,915	63,714	15,369	13,832	34,513
2771	Greeting card manufacturing	75,240	34,606	27,661	12,973	79,096	37,704	27,577	13,815
278	Bookbinding and related work	54,658	18,506	14,342	21,810	50,850	17,058	12,848	20,944
2782	Blankbooks; looseleaf binders	39,945	14,810	8,930	16,205	38,161	13,577	8,543	16,041
2789	Bookbinding and related work	14,713	3,696	5,412	5,605	12,689	3,481	4,305	4,903
279	Printing trades services	19,993	2,213	9,213	8,567	19,519	2,005	8,135	9,381
2791	Typesetting	10,710	770	7,229	2,711	10,685	848	6,396	3,441
2793	Photoengraving	6,123	918	1,658	3,547	5,599	592	1,531	3,478
2794	Electrotyping and stereotyping	3,160	525	326	2,309	3,235	565	208	2,462
28	Chemicals and allied products	3,825,760	1,877,874	550,679	1,397,207	3,702,178	1,836,667	523,374	1,342,137
281	Basic chemicals	1,242,570	614,369	201,991	426,210	1,214,885	607,870	197,970	409,045
2812	Alkalies and chlorine	64,328	28,268	3,558	32,502	64,130	27,992	3,228	32,980
2813	Industrial gases	15,284	10,516	48	4,720	15,273	11,323	73	3,877
2814	Cyclic (coal tar) crudes	16,138	9,842	1,122	5,174	14,662	8,935	1,532	4,195
2815	Intermediate coal tar products	194,818	100,325	49,032	45,461	166,485	80,439	42,687	43,359
2816	Inorganic pigments	86,597	38,269	7,137	41,191	89,758	41,628	7,968	40,162
2818	Organic chemicals, n.e.c.	552,836	289,857	90,578	172,401	546,828	298,053	89,434	159,341
2819	Inorganic chemicals, n.e.c.	312,569	137,292	50,516	124,761	317,749	139,570	53,048	125,131
282	Fibers, plastics, rubbers	604,206	336,523	80,216	187,467	590,618	331,442	75,852	183,324
2821	Plastics materials and resins	321,812	180,680	36,720	104,412	314,716	179,558	35,723	99,435
2822	Synthetic rubber	76,829	52,045	5,667	19,117	74,957	51,296	5,432	18,229
2823	Cellulosic man-made fibers	81,555	37,605	16,622	27,328	86,154	40,459	14,026	31,669
2824	Organic fibers, noncellulosic	124,010	66,193	21,207	36,610	114,791	60,129	20,671	33,991
283	Drugs	530,214	186,931	138,656	204,627	501,359	176,829	127,037	197,493
2831	Biological products	29,523	11,901	10,009	7,613	25,895	11,199	7,828	6,868
2833	Medicinals and botanicals	72,423	21,600	26,108	24,715	68,685	21,867	24,812	22,006
2834	Pharmaceutical preparations	428,268	153,430	102,539	172,299	406,779	143,763	94,397	168,619

See footnotes at end of table.

TABLE 1. Value of Manufacturers' Inventories for Industry Groups and Industries: End of 1963 and 1962—Continued

(Thousands of dollars)

Code	Industry	Value of inventories [1] at end of–							
		1963				1962			
		Total	Finished products	Work in process	Materials, supplies, fuels, etc.	Total	Finished products	Work in process	Materials, supplies, fuels, etc.
28	Chemicals and allied products—Continued								
284	Cleaning and toilet goods	466,360	219,255	45,121	201,984	455,500	221,080	40,100	194,320
2841	Soap and other detergents	195,224	96,454	25,356	73,414	195,191	99,166	22,516	73,509
2842	Polishes and sanitation goods	73,632	36,755	5,623	31,254	75,391	38,883	5,102	31,406
2843	Surface active agents	22,537	11,169	1,475	9,893	23,060	11,773	1,522	9,765
2844	Toilet preparations	174,967	74,877	12,667	87,423	161,858	71,258	10,960	79,640
2851	Paints and allied products	340,188	186,130	18,179	135,879	324,494	181,338	17,412	125,744
2861	Gum and wood chemicals	53,750	27,326	4,396	22,028	50,426	25,752	3,851	20,823
287	Agricultural chemicals	350,429	196,888	34,120	119,421	332,377	185,305	36,562	110,510
2871	Fertilizers	148,876	80,708	19,689	48,479	143,918	76,052	22,150	45,716
2872	Fertilizers, mixing only	108,226	56,041	10,224	41,961	102,677	55,583	10,440	36,654
2879	Agricultural chemicals, n.e.c	93,327	60,139	4,207	28,981	85,782	53,670	3,972	28,140
289	Miscellaneous chemical products	238,043	110,452	28,000	99,591	232,519	107,051	24,590	100,878
2891	Glue and gelatin	47,014	21,536	5,462	20,016	47,142	22,519	5,235	19,388
2892	Explosives	27,224	10,209	3,515	13,500	28,536	10,689	4,155	13,692
2893	Printing ink	31,071	13,093	1,475	16,503	32,022	12,344	1,539	18,139
2895	Carbon black	15,045	11,215	-	3,830	16,996	13,041	-	3,955
2899	Chemical preparations, n.e.c	117,689	54,399	17,548	45,742	107,823	48,458	13,661	45,704
29	Petroleum and coal products	1,818,020	1,112,667	348,570	356,783	1,829,302	1,079,509	371,713	378,080
2911	Petroleum refining	1,695,549	1,054,403	342,966	298,180	1,708,184	1,023,117	366,217	318,850
295	Paving and roofing materials	55,158	28,821	1,981	24,356	53,732	27,605	1,929	24,198
2951	Paving mixtures and blocks	12,108	4,719	486	6,903	11,869	4,932	360	6,577
2952	Asphalt felts and coatings	43,050	24,102	1,495	17,453	41,863	22,673	1,569	17,621
299	Petroleum and coal products, n.e.c	67,313	29,443	3,623	34,247	67,386	28,787	3,567	35,032
2992	Lubricating oils and greases	52,046	27,025	3,457	21,564	49,092	25,375	3,429	20,288
2999	Petroleum and coal products, n.e.c	15,267	2,418	166	12,683	18,294	3,412	138	14,744
30	Rubber and plastics products, n.e.c.	1,189,924	625,088	193,101	371,735	1,159,641	613,572	186,790	359,279
3011	Tires and inner tubes	413,217	255,291	48,293	109,633	411,351	260,563	47,892	102,896
3021	Rubber footwear	86,390	65,074	7,148	14,168	82,969	61,975	6,412	14,582
3031	Reclaimed rubber	5,823	2,514	335	2,974	5,232	2,422	259	2,551
3069	Rubber products, n.e.c	323,446	148,782	70,458	104,206	325,907	148,319	70,567	107,021
3079	Plastics products, n.e.c	361,048	153,427	66,867	140,754	334,182	140,293	61,660	132,229
31	Leather and leather products	551,861	215,783	134,060	202,018	566,438	216,925	136,184	213,329
3111	Leather tanning and finishing	140,301	43,839	60,841	35,621	149,201	46,085	63,404	39,712
3121	Industrial leather belting	7,726	3,566	1,762	2,398	7,667	3,489	1,839	2,339
3131	Footwear cut stock	22,980	8,831	3,667	10,482	24,310	9,596	3,319	11,395
314	Footwear, except rubber	280,454	112,218	52,747	115,489	285,248	111,492	52,409	121,347
3141	Shoes, except rubber	268,527	106,619	51,543	110,365	273,045	105,974	50,988	116,083
3142	House slippers	11,927	5,599	1,204	5,124	12,203	5,518	1,421	5,264
3151	Leather gloves	14,858	6,828	3,137	4,893	16,532	8,370	3,347	4,815
3161	Luggage	36,292	17,731	4,256	14,305	33,312	14,745	4,386	14,180
317	Purses and small leather goods	39,723	18,129	6,604	14,990	40,824	18,799	6,641	15,384
3171	Handbags and purses	18,808	8,365	3,259	7,184	19,632	8,875	3,431	7,326
3172	Small leather goods	20,915	9,764	3,345	7,806	21,192	9,924	3,210	8,058
3199	Leather goods, n.e.c	9,527	4,641	1,046	3,840	9,345	4,349	839	4,157
32	Stone, clay, and glass products	1,522,407	804,464	194,487	523,456	1,471,029	774,805	186,245	509,979
3211	Flat glass	72,669	21,612	17,216	33,841	71,489	21,019	16,854	33,616
322	Pressed and blown glassware	232,707	162,625	16,027	54,055	206,119	137,245	14,982	53,892
3221	Glass containers	137,349	105,410	1,288	30,651	120,575	87,607	1,406	31,562
3229	Pressed and blown glass, n.e.c	95,358	57,215	14,739	23,404	85,544	49,638	13,576	22,330
3231	Products of purchased glass	88,889	43,044	16,026	29,819	85,208	40,456	15,868	28,884
3241	Cement, hydraulic	180,625	69,648	25,169	85,808	181,942	72,135	25,167	84,640
325	Structural clay products	162,707	111,942	12,085	38,680	160,753	110,604	12,376	37,773
3251	Brick and structural tile	48,007	37,948	3,503	6,556	49,812	40,547	3,437	5,828
3253	Ceramic wall and floor tile	33,250	22,449	3,808	6,993	31,881	21,429	3,842	6,610
3255	Clay refractories	54,001	30,322	2,560	21,119	53,941	29,487	2,901	21,553
3259	Structural clay products, n.e.c	27,449	21,223	2,214	4,012	25,119	19,141	2,196	3,782

See footnotes at end of table.

TABLE 1. Value of Manufacturers' Inventories for Industry Groups and Industries: End of 1963 and 1962—Continued

(Thousands of dollars)

Code	Industry	Value of inventories [1] at end of--							
		1963				1962			
		Total	Finished products	Work in process	Materials, supplies, fuels, etc.	Total	Finished products	Work in process	Materials, supplies, fuels, etc.
32	Stone, clay and glass products—Continued								
326	Pottery and related products	77,820	37,413	18,715	21,692	75,097	36,139	17,426	21,532
3261	Vitreous plumbing fixtures	26,818	15,738	4,550	6,530	25,363	14,878	3,902	6,583
3262	Vitreous china food utensils	11,873	5,728	3,962	2,183	11,442	5,573	3,640	2,229
3263	Fine earthenware food utensils	9,663	5,276	1,646	2,741	9,835	5,610	1,431	2,794
3264	Porcelain electrical supplies	19,599	5,385	7,160	7,054	19,789	5,260	7,299	7,230
3269	Pottery products, n.e.c.	9,867	5,286	1,397	3,184	8,668	4,818	1,154	2,696
327	Concrete and plaster products	298,961	169,820	22,906	106,235	288,802	170,042	19,543	99,217
3271	Concrete block and brick	57,990	49,217	872	7,901	54,511	46,102	890	7,519
3272	Other concrete products	126,083	78,510	16,154	31,419	123,918	79,374	13,612	30,932
3273	Ready mixed concrete	64,453	28,535	1,463	34,455	65,134	28,980	1,428	34,726
3274	Lime	13,979	3,841	640	9,498	14,204	3,982	719	9,503
3275	Gypsum products	36,456	9,717	3,777	22,962	31,035	11,604	2,894	16,537
3281	Cut stone and stone products	31,199	11,761	9,032	10,406	29,779	11,861	8,010	9,908
329	Nonmetallic minerals products	376,830	176,599	57,311	142,920	371,840	175,304	56,019	140,517
3291	Abrasive products	115,017	49,397	25,441	40,179	115,182	50,653	24,529	40,000
3292	Asbestos products	82,827	49,551	12,093	21,183	83,202	49,342	11,746	22,114
3293	Gaskets and insulations	40,535	17,329	7,879	15,327	40,939	18,925	7,797	14,217
3295	Minerals, ground or treated	23,488	10,810	2,854	9,824	23,485	10,706	3,391	9,388
3296	Mineral wool	32,388	15,898	1,955	14,535	30,125	13,721	2,387	14,017
3297	Nonclay refractories	71,279	29,678	5,030	36,571	67,809	28,125	4,515	35,169
3299	Nonmetallic products, n.e.c.	11,296	3,936	2,059	5,301	11,098	3,832	1,654	5,612
33	Primary metal industries	6,057,254	1,739,440	1,893,725	2,424,089	6,014,043	1,722,432	1,794,362	2,497,250
331	Steel rolling and finishing	3,612,137	1,024,850	886,091	1,701,196	3,652,558	1,019,022	848,431	1,785,106
3312	Blast furnaces and steel mills	3,146,552	843,487	784,031	1,519,034	3,175,474	838,184	742,219	1,595,072
3313	Electrometallurgical products	93,879	42,547	10,244	41,088	106,211	49,606	11,837	44,768
3315	Steel wire drawing, etc.	110,367	51,252	24,657	34,458	113,977	50,940	27,572	35,465
3316	Cold finishing of steel shapes	109,368	32,017	24,891	52,460	110,488	29,751	24,853	55,884
3317	Steel pipe and tube	151,971	55,547	42,268	54,156	146,408	50,541	41,950	53,917
332	Iron and steel foundries	317,985	106,243	81,665	130,077	322,581	101,371	85,914	135,296
3321	Gray iron foundries	192,498	81,499	27,397	83,602	198,475	76,161	35,633	86,681
3322	Malleable iron foundries	23,954	5,818	8,157	9,979	25,402	7,105	8,010	10,287
3323	Steel foundries	101,533	18,926	46,111	36,496	98,704	18,105	42,271	38,328
333	Primary nonferrous metal	424,709	115,659	201,715	107,335	450,169	163,656	175,544	110,969
3331	Primary copper	166,368	44,362	106,749	15,257	160,955	60,163	80,921	19,871
3332	Primary lead	50,016	16,457	29,130	4,429	62,210	29,922	26,955	5,333
3333	Primary zinc	46,003	12,648	11,837	21,518	56,871	22,015	11,745	23,111
3334	Primary aluminum	106,479	20,777	34,715	50,987	123,754	40,936	33,017	49,801
3339	Primary nonferrous metals, n.e.c.	55,843	21,415	19,284	15,144	46,379	10,620	22,906	12,853
3341	Secondary nonferrous metals	143,083	66,341	32,105	44,637	123,983	58,429	34,217	31,337
335	Nonferrous rolling and drawing	1,275,494	379,742	588,572	307,180	1,184,554	335,071	547,906	301,577
3351	Copper rolling and drawing	218,431	58,449	91,474	68,508	208,685	52,761	87,747	68,177
3352	Aluminum rolling and drawing	511,902	120,801	289,297	101,804	455,537	101,138	259,463	94,936
3356	Rolling and drawing, n.e.c.	205,905	61,827	95,221	48,857	192,684	57,713	84,697	50,274
3357	Nonferrous wire drawing, etc.	339,256	138,665	112,580	88,011	327,648	123,459	115,999	88,190
336	Nonferrous foundries	102,852	21,113	38,070	43,669	97,594	19,600	35,407	42,587
3361	Aluminum castings	46,898	7,796	17,484	21,618	44,185	7,013	15,199	21,973
3362	Brass, bronze, copper castings	32,634	8,090	12,097	12,447	31,176	7,779	11,417	11,980
3369	Nonferrous castings, n.e.c.	23,320	5,227	8,489	9,604	22,233	4,808	8,791	8,634
339	Primary metal industries, n.e.c.	180,994	25,492	65,507	89,995	182,604	25,283	66,943	90,378
3391	Iron and steel forgings	125,015	11,103	41,951	71,961	127,545	10,672	44,411	72,462
3392	Nonferrous forgings	34,304	5,678	18,324	10,302	33,518	6,317	18,065	9,136
3399	Primary metal industries, n.e.c.	21,675	8,711	5,232	7,732	21,541	8,294	4,467	8,780
34	Fabricated metal products	3,954,077	1,134,996	1,329,977	1,489,101	3,783,909	1,093,779	1,246,973	1,443,127
3411	Metal cans	321,722	112,560	89,787	119,375	292,330	97,361	84,288	110,651
342	Cutlery, hand tools, hardware	481,205	149,517	187,169	144,519	449,994	145,365	171,239	133,390
3421	Cutlery	47,220	17,585	13,859	15,776	41,370	15,864	12,000	13,506
3423	Hand and edge tools	132,160	52,360	48,349	31,451	126,961	51,615	43,063	32,283
3425	Hand saws and saw blades	24,361	9,835	6,326	8,200	21,969	8,899	5,800	7,270
3429	Hardware, n.e.c.	277,464	69,737	118,635	89,092	259,694	68,987	110,376	80,331
343	Plumbing and heating, except electric.	306,338	133,176	68,108	105,054	299,366	135,071	61,481	102,814
3431	Metal plumbing fixtures	37,380	19,685	6,842	10,853	36,247	19,570	5,798	10,879
3432	Plumbing fittings, brass goods	64,736	28,174	19,212	17,350	61,484	26,253	18,942	16,289
3433	Heating equipment, except electric.	204,222	85,317	42,054	76,851	201,635	89,248	36,741	75,646

See footnotes at end of table.

TABLE 1. Value of Manufacturers' Inventories for Industry Groups and Industries: End of 1963 and 1962—Continued

(Thousands of dollars)

Code	Industry	Value of inventories[1] at end of--							
		1963				1962			
		Total	Finished products	Work in process	Materials, supplies, fuels, etc.	Total	Finished products	Work in process	Materials, supplies, fuels, etc.
34	Fabricated metal products—Con.								
344	Structural metal products	1,335,876	200,801	597,356	537,719	1,289,720	198,445	556,921	534,354
3441	Fabricated structural steel	497,896	28,091	307,901	161,904	463,213	24,072	272,188	166,953
3442	Metal doors, sash, and trim	180,041	46,213	37,476	96,352	177,335	47,571	38,177	91,587
3443	Boiler shop products	319,523	36,556	162,007	120,960	316,752	35,499	155,376	125,877
3444	Sheet metal work	189,123	46,758	51,762	90,603	184,766	47,859	52,169	84,738
3446	Architectural metal work	39,441	6,468	14,599	18,374	40,481	6,290	15,957	18,234
3449	Miscellaneous metal work, n.e.c.	109,852	36,715	23,611	49,526	107,173	37,154	23,054	46,965
345	Screw machine products, bolts, etc.	281,002	122,314	59,103	99,585	268,794	117,655	56,015	95,124
3451	Screw machine products	58,835	14,431	21,569	22,835	54,106	12,158	20,984	20,964
3452	Bolts, nuts, rivets, and washers	222,167	107,883	37,534	76,750	214,688	105,497	35,031	74,160
3461	Metal stampings	360,833	102,149	96,865	161,819	336,751	95,765	88,313	152,673
347	Metal services, n.e.c.	49,554	10,094	5,742	33,718	45,295	9,627	5,641	30,027
3471	Plating and polishing	22,104	3,625	1,827	16,652	20,461	2,878	1,624	15,959
3479	Metal coating, engraving, etc.	27,450	6,469	3,915	17,066	24,834	6,749	4,017	14,068
3481	Fabricated wire products, n.e.c.	150,692	59,541	28,352	62,799	150,688	59,365	28,830	62,493
349	Fabricated metal products, n.e.c.	666,853	244,844	197,498	224,513	650,971	235,125	194,245	221,601
3491	Metal barrels, drums, and pails	49,513	7,555	6,133	35,825	49,433	7,589	6,025	35,819
3492	Safes and vaults	15,714	5,546	5,390	4,778	13,300	4,596	3,860	4,844
3493	Steel springs	21,061	3,419	5,685	11,957	19,526	3,026	5,414	11,086
3494	Valves and pipe fittings	385,426	161,618	138,898	84,912	381,082	155,678	138,683	86,721
3496	Collapsible tubes	5,033	1,900	637	2,496	4,954	1,937	669	2,348
3497	Metal foil and leaf	28,737	8,981	5,115	14,641	25,122	8,197	5,093	11,832
3498	Fabricated pipe and fittings	69,813	24,499	13,725	31,589	70,374	25,196	12,571	32,607
3499	Fabricated metal products, n.e.c.	91,556	31,326	21,915	38,315	87,180	28,906	21,930	36,344
35	Machinery, except electrical	6,803,006	2,061,684	3,027,133	1,714,191	6,554,398	2,017,342	2,868,816	1,668,251
351	Engines and turbines	455,427	76,260	297,687	81,480	445,141	81,264	280,680	83,197
3511	Steam engines and turbines	176,156	9,702	137,141	29,313	172,965	10,125	130,529	32,311
3519	Internal combustion engines	279,271	66,558	160,546	52,167	272,176	71,139	150,151	50,886
3522	Farm machinery and equipment	669,266	267,168	206,855	195,243	633,879	253,194	197,930	182,755
353	Construction and like equipment	1,245,960	404,218	427,521	414,221	1,212,802	406,853	409,303	396,646
3531	Construction machinery	671,574	191,078	256,104	224,392	649,567	194,843	243,490	211,234
3532	Mining machinery and equipment	109,415	43,026	36,132	30,257	107,869	43,686	33,895	30,288
3533	Oil field machinery	176,761	94,865	34,437	47,459	182,379	92,755	40,827	48,797
3534	Elevators and moving stairways	65,980	21,616	17,843	26,521	70,965	23,981	17,883	29,101
3535	Conveyors	79,282	18,071	29,621	31,590	71,444	17,241	23,528	30,675
3536	Hoists, cranes, and monorails	45,367	7,207	18,990	19,170	39,320	6,519	16,417	16,384
3537	Industrial trucks and tractors	97,581	28,355	34,394	34,832	91,258	27,828	33,263	30,167
354	Metalworking machinery	952,791	255,806	496,768	200,218	893,280	243,134	463,440	186,706
3541	Metal-cutting machine tools	316,288	82,334	176,203	57,751	288,027	75,254	163,194	49,579
3542	Metal-forming machine tools	124,188	33,900	58,346	31,942	118,829	32,229	54,773	31,827
3544	Special dies and tools	124,789	14,702	80,181	29,906	107,375	13,530	67,489	26,356
3545	Machine tool accessories	171,115	65,952	71,715	33,448	163,906	64,323	66,923	32,660
3548	Metalworking machinery, n.e.c.	216,412	58,918	110,323	47,171	215,143	57,798	111,061	46,284
355	Special industry machinery	815,244	259,500	346,440	209,304	792,560	252,021	330,892	206,958
3551	Food products machinery	154,082	56,195	56,487	41,400	156,779	59,299	58,206	39,274
3552	Textile machinery	135,260	41,940	53,071	40,249	132,424	39,657	51,577	41,190
3553	Woodworking machinery	57,582	16,678	23,535	17,369	47,246	15,306	20,610	11,330
3554	Paper industries machinery	103,239	17,674	60,684	24,881	93,401	15,222	53,119	25,060
3555	Printing trades machinery	129,233	43,566	63,255	22,412	121,987	39,544	59,073	23,370
3559	Special industry machines, n.e.c.	238,295	85,539	89,599	63,156	240,723	85,502	88,482	66,739
356	General industrial machinery	988,568	335,190	405,108	248,271	*957,291	331,102	376,481	252,407
3561	Pumps and compressors	352,147	137,302	145,608	69,237	341,790	130,542	142,135	69,113
3562	Ball and roller bearings	219,560	65,903	97,257	56,400	218,913	70,635	91,348	56,930
3564	Blowers and fans	53,318	9,327	23,454	20,537	*55,251	9,268	22,187	23,796
3565	Industrial patterns	8,430	629	5,469	2,333	7,078	313	4,727	2,038
3566	Power transmission equipment	190,630	80,130	68,127	42,373	178,486	76,915	59,215	42,356
3567	Industrial furnaces and ovens	38,616	7,539	15,532	15,546	37,611	6,941	14,446	16,224
3569	General industry machines, n.e.c.	123,420	32,268	49,470	41,682	118,172	33,979	42,248	41,945
357	Office machines, n.e.c.	832,582	176,103	553,749	102,730	808,695	172,257	537,962	98,476
3571	Computing and related machines	653,536	114,303	463,015	76,218	642,545	115,891	452,511	74,143
3572	Typewriters	65,187	13,191	43,170	8,826	57,072	9,981	38,934	8,157
3576	Scales and balances	24,045	7,100	12,017	4,928	22,394	6,135	11,813	4,446
3579	Office machines, n.e.c.	89,814	41,509	35,547	12,758	86,684	40,250	34,704	11,730

See footnotes at end of table.

TABLE 1. Value of Manufacturers' Inventories for Industry Groups and Industries: End of 1963 and 1962—Continued

(Thousands of dollars)

Code	Industry	Value of inventories [1] at end of--							
		1963				1962			
		Total	Finished products	Work in process	Materials, supplies, fuels, etc.	Total	Finished products	Work in process	Materials, supplies, fuels, etc.
35	Machinery, except electrical—Continued								
358	Service industry machines	609,711	213,234	198,812	197,665	579,777	204,875	180,223	194,679
3581	Automatic vending machines	53,968	18,678	15,522	19,768	54,036	16,792	17,135	20,109
3582	Commercial laundry equipment	32,697	9,230	6,700	16,767	33,017	9,840	7,151	16,026
3585	Refrigeration machinery	417,090	154,889	132,258	129,943	387,771	146,916	115,134	125,721
3586	Measuring and dispensing pumps	37,212	11,568	18,705	6,939	36,307	11,313	15,521	9,473
3589	Service industry machines, n.e.c.	68,744	18,869	25,627	24,248	68,646	20,014	25,282	23,350
3599	Miscellaneous machinery	233,457	74,205	94,193	65,059	230,974	72,642	91,905	66,427
36	Electrical machinery	5,239,708	1,453,815	2,462,976	1,322,924	5,148,799	1,358,692	2,437,313	1,352,794
361	Electric distribution products	526,724	133,788	229,544	163,392	520,475	135,312	224,476	160,687
3611	Electric measuring instruments	181,276	41,917	80,882	58,477	176,906	38,718	82,460	55,728
3612	Transformers	134,874	37,902	52,700	44,272	140,088	43,745	51,238	45,105
3613	Switchgear and switchboards	210,574	53,969	95,962	60,643	203,481	52,849	90,778	59,854
362	Electric industrial apparatus	590,188	154,460	266,471	169,257	593,094	156,190	255,816	181,088
3621	Motors and generators	321,517	83,993	144,227	93,297	335,091	85,259	146,936	102,896
3622	Industrial controls	118,887	31,526	60,228	27,133	110,383	33,839	48,504	28,040
3623	Electric welding apparatus	56,666	20,511	15,111	21,044	56,075	19,963	14,902	21,210
3624	Carbon and graphite products	50,228	8,062	32,640	9,526	51,457	8,368	33,042	10,047
3629	Electric industrial goods, n.e.c.	42,890	10,368	14,265	18,257	40,088	8,761	12,432	18,895
363	Household appliances	716,085	366,539	167,711	181,835	625,091	315,062	150,460	159,569
3631	Household cooking equipment	84,918	45,162	13,578	26,178	73,214	34,777	13,601	24,836
3632	Household refrigerators	208,619	121,280	42,015	45,324	179,827	111,683	30,741	37,403
3633	Household laundry equipment	110,827	60,310	19,922	30,595	100,539	51,215	19,300	30,024
3634	Electric housewares and fans	159,772	79,720	31,981	48,071	143,762	68,339	35,220	40,203
3635	Household vacuum cleaners	30,087	16,325	6,883	6,879	22,674	9,539	7,574	5,561
3636	Sewing machines	63,738	19,585	39,981	4,172	51,500	18,977	28,851	3,672
3639	Household appliances, n.e.c.	58,124	24,157	13,351	20,616	53,575	20,532	15,173	17,870
364	Lighting and wiring devices	421,910	187,629	107,272	127,016	417,766	189,796	104,785	123,185
3641	Electric lamps	63,744	48,571	1,577	13,596	69,167	53,970	1,449	13,748
3642	Lighting fixtures	157,100	52,763	47,733	56,611	147,258	49,991	44,106	53,161
3643	Current carrying devices	99,549	37,905	32,461	29,183	102,326	38,181	34,377	29,768
3644	Noncurrent carrying devices	101,517	48,390	25,501	27,626	99,015	47,654	24,853	26,508
365	Radio and TV receiving equipment	401,233	182,566	94,642	124,025	335,241	136,383	90,899	107,959
3651	Radio and TV receiving sets	381,381	171,830	92,001	117,550	314,841	124,775	88,432	101,634
3652	Phonograph records	19,852	10,736	2,641	6,475	20,400	11,608	2,467	6,325
366	Communication equipment	1,663,346	170,451	1,214,057	278,838	1,724,531	167,402	1,224,657	332,472
3661	Telephone; telegraph apparatus	331,398	26,902	234,786	69,710	356,497	29,920	250,147	76,430
3662	Radio, TV communications equipment	1,331,948	143,549	979,271	209,128	1,368,034	137,482	974,510	256,042
367	Electronic components	660,914	174,376	292,116	194,422	665,241	172,368	292,376	200,497
3671	Electron tubes, receiving type	53,327	31,293	12,695	9,339	48,158	24,476	13,813	9,869
3672	Cathode ray picture tubes	23,237	6,360	5,492	11,385	20,720	5,530	4,979	10,211
3673	Electron tubes, transmitting	74,176	18,673	34,709	20,794	75,800	16,836	35,148	23,816
3674	Semiconductors	118,192	37,722	55,259	25,211	142,985	44,455	69,924	28,606
3679	Electronic components, n.e.c.	391,982	80,328	183,961	127,693	377,578	81,071	168,512	127,995
369	Electrical products, n.e.c.	259,308	84,006	91,163	84,139	267,360	86,179	93,844	87,337
3691	Storage batteries	75,138	23,836	30,065	21,237	72,900	23,548	27,933	21,419
3692	Primary batteries, dry and wet	29,986	9,292	8,861	11,833	29,464	10,370	8,992	10,102
3693	X-ray apparatus and tubes	30,036	11,608	8,962	9,466	30,274	12,238	8,588	9,448
3694	Engine electrical equipment	99,818	31,921	39,287	28,610	109,644	33,050	44,120	32,474
3699	Electrical products, n.e.c.	24,330	7,349	3,988	12,993	25,078	6,973	4,211	13,894
37	Transportation equipment	7,048,765	791,245	4,300,913	1,956,607	6,553,226	812,470	3,936,877	1,803,859
371	Motor vehicles and equipment	2,627,239	434,702	1,104,914	1,087,623	2,480,091	456,380	1,025,979	997,722
3713	Truck and bus bodies	74,333	13,772	28,715	31,846	67,754	12,168	27,363	28,223
3715	Truck trailers	82,091	13,153	11,986	56,952	82,140	12,186	13,676	56,278
3717	Motor vehicles and parts	2,470,815	407,777	1,064,213	998,825	2,330,197	432,026	984,940	913,221
372	Aircraft and parts	3,603,427	255,822	2,676,420	671,185	3,253,414	260,032	2,370,646	622,736
3721	Aircraft	2,437,713	58,627	1,944,544	434,542	2,026,900	91,157	1,589,334	346,409
3722	Aircraft engines and parts	607,359	150,408	313,374	143,577	614,502	110,580	332,643	171,279
3723	Aircraft propellers and parts	33,042	13,408	13,760	5,874	41,580	14,866	19,801	6,913
3729	Aircraft equipment, n.e.c.	525,313	33,379	404,742	87,192	570,432	43,429	428,868	98,135
373	Ship and boat building	422,697	33,645	311,696	77,356	459,793	31,877	350,985	76,931
3731	Ship building and repairing	344,057	7,641	291,319	45,097	387,297	8,519	334,020	44,758
3732	Boat building and repairing	78,640	26,004	20,377	32,259	72,496	23,358	16,965	32,173

See footnotes at end of table.

TABLE 1. Value of Manufacturers' Inventories for Industry Groups and Industries: End of 1963 and 1962—Continued

(Thousands of dollars)

Code	Industry	Value of inventories [1] at end of--							
		1963				1962			
		Total	Finished products	Work in process	Materials, supplies, fuels, etc.	Total	Finished products	Work in process	Materials, supplies, fuels, etc.
37	Transportation equipment—Con.								
374	Railroad equipment	270,006	30,319	178,912	60,775	241,409	31,411	160,597	49,401
3741	Locomotives and parts	83,784	13,744	65,576	4,464	86,112	15,761	65,405	4,946
3742	Railroad and street cars	186,222	16,575	113,336	56,311	155,297	15,650	95,192	44,455
3751	Motorcycles, bicycles, and parts	36,006	11,398	15,579	9,029	34,852	9,500	15,926	9,426
379	Transportation equipment, n.e.c	89,390	25,359	13,392	50,639	83,667	23,270	12,744	47,643
3791	Trailer coaches	63,118	16,943	6,464	39,711	59,003	15,373	6,128	37,492
3799	Transportation equipment, n.e.c	26,272	8,416	6,928	10,928	24,664	7,897	6,616	10,151
38	Instruments and related products	1,177,942	348,167	518,271	311,504	1,121,632	340,057	480,026	301,549
3811	Scientific instruments	122,106	22,455	69,721	29,930	115,571	21,829	64,545	29,197
382	Mechanical measuring devices	367,296	87,613	176,605	103,078	348,811	84,824	164,697	99,290
3821	Mechanical measuring devices	256,524	48,565	126,160	81,799	250,064	54,203	115,649	80,212
3822	Automatic temperature controls	110,772	39,048	50,445	21,279	98,747	30,621	49,048	19,078
3831	Optical instruments and lenses	42,960	10,676	26,590	5,694	40,151	10,337	24,477	5,337
384	Medical instruments and supplies	187,954	65,552	69,642	52,760	175,393	57,452	61,845	56,096
3841	Surgical and medical instruments	54,096	22,526	19,615	11,955	47,279	16,842	13,901	16,536
3842	Surgical appliances and supplies	100,187	31,885	34,554	33,748	95,290	30,891	31,887	32,512
3843	Dental equipment and supplies	33,671	11,141	15,473	7,057	32,824	9,719	16,057	7,048
3851	Ophthalmic goods	72,663	33,195	26,632	12,836	70,683	32,413	25,592	12,678
3861	Photographic equipment	289,511	89,046	106,459	94,006	279,302	97,155	98,887	83,260
387	Watches, clocks, and watchcases	95,452	39,630	42,622	13,200	91,721	36,047	39,983	15,691
3871	Watches and clocks	89,535	38,448	39,720	11,367	84,877	34,776	36,159	13,942
3872	Watchcases	5,917	1,182	2,902	1,833	6,844	1,271	3,824	1,749
39	Miscellaneous manufacturing	1,115,703	470,726	278,179	366,793	1,076,627	451,780	264,392	360,454
391	Jewelry and silverware	193,682	93,097	50,009	50,577	189,989	92,955	50,303	46,732
3911	Jewelry, precious metal	105,295	51,038	22,583	31,675	99,797	49,360	22,874	27,564
3912	Jewelers' findings and materials	12,486	5,385	4,633	2,468	12,448	4,906	5,033	2,509
3913	Lapidary work	15,273	9,860	1,786	3,627	18,652	12,778	2,127	3,747
3914	Silverware and plated ware	60,628	26,814	21,007	12,807	59,092	25,911	20,269	12,912
3931	Musical instruments and parts	63,719	15,669	31,862	16,188	55,295	12,252	27,515	15,528
394	Toys and sporting goods	349,206	169,949	74,299	104,953	334,249	158,385	69,915	105,948
3941	Games and toys	135,267	68,686	24,167	42,414	124,625	58,471	24,676	41,477
3942	Dolls	27,186	15,331	1,915	9,940	21,270	10,589	2,081	8,600
3943	Children's vehicles	11,692	4,454	2,431	4,807	12,692	4,396	3,083	5,213
3949	Sporting and athletic goods	175,061	81,478	45,786	47,792	175,662	84,929	40,075	50,658
395	Pens, pencils, and office supplies	91,289	29,380	21,222	40,686	89,634	29,100	21,184	39,350
3951	Pens and mechanical pencils	29,476	7,182	10,293	12,001	27,845	7,404	9,851	10,590
3952	Lead pencils and art goods	26,369	10,624	4,758	10,986	26,177	10,813	4,662	10,702
3953	Marking devices	12,119	4,967	1,235	5,917	11,596	4,460	1,345	5,791
3955	Carbon paper and inked ribbons	23,325	6,607	4,936	11,782	24,016	6,423	5,326	12,267
396	Costume jewelry and notions	107,352	44,054	30,799	32,499	104,223	43,255	29,744	31,223
3961	Costume jewelry	34,176	13,629	10,075	10,472	31,067	11,528	9,233	10,305
3962	Artificial flowers	9,610	4,546	502	4,562	10,175	5,041	592	4,542
3963	Buttons	11,798	6,517	2,436	2,845	12,052	6,896	2,211	2,945
3964	Needles, pins, and fasteners	51,768	19,362	17,786	14,620	50,929	19,790	17,708	13,431
398 399	Miscellaneous manufactures	310,455	118,577	69,988	121,890	303,237	115,833	65,731	121,673
3981	Brooms and brushes	66,428	29,756	7,837	28,835	65,812	30,216	7,015	28,581
3982	Hard surface floor coverings	29,921	17,971	5,670	6,280	34,960	21,543	6,657	6,760
3983	Matches	8,914	2,937	2,145	3,832	10,299	3,417	2,280	4,602
3984	Candles	8,009	4,745	503	2,761	7,527	4,137	434	2,956
3987	Lamp shades	3,127	1,006	503	1,618	2,984	954	448	1,582
3988	Morticians' goods	46,395	12,862	11,776	21,757	44,801	13,013	10,519	21,269
3992	Furs, dressed and dyed	2,662	1,211	885	566	2,574	603	1,166	805
3993	Signs and advertising displays	69,090	19,311	20,293	29,486	62,988	16,408	18,675	27,905
3995	Umbrellas, parasols, and canes	6,133	2,705	1,752	1,676	6,326	2,442	1,561	2,323
3999	Miscellaneous products, n.e.c	69,776	26,073	18,624	25,079	64,966	23,100	16,976	24,890

See footnotes at end of table.

TABLE 1. Value of Manufacturers' Inventories for Industry Groups and Industries: End of 1963 and 1962—Continued

(Thousands of dollars)

Code	Industry	Value of inventories[1] at end of–							
		1963				1962			
		Total	Finished products	Work in process	Materials, supplies, fuels, etc.	Total	Finished products	Work in process	Materials, supplies, fuels, etc.
19	Ordnance and accessories.....	454,455	29,825	293,635	130,995	467,388	35,374	311,628	120,388
1911 1999	Guns, howitzers, and mortars and ordnance and accessories, n.e.c.....	43,307	4,415	29,880	9,012	44,439	4,668	30,863	8,908
192	Missiles and ammunition, n.e.c.....	196,010	3,204	132,180	60,626	212,897	3,572	162,433	46,894
1925	Complete guided missiles.....	151,598	40	104,724	46,834	159,861	101	128,227	31,533
1929	Ammunition, n.e.c.....	44,412	3,164	27,456	13,792	53,036	3,471	34,206	15,361
1931	Tanks and tank components.....	81,967	1,509	70,424	10,034	66,053	899	57,948	7,206
1941	Sighting and fire control equipment...	33,648	705	24,525	8,418	28,291	1,505	23,754	3,032
1951	Small arms, 30 mm and under.....	35,983	7,614	22,528	5,841	41,487	9,189	22,728	9,570
1961	Small arms ammunition.....	63,540	12,378	14,098	37,064	74,221	15,541	13,902	44,778

Note: Figures may not add to the totals because of independent rounding.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

[1]In 1963, establishments that reported on the short form (generally those with less than six employees) were asked to show only their total beginning and end of year inventories. The totals were prorated on the basic averages of establishments in the industry that reported detailed inventory by type.

TABLE 2. Value of Manufacturers' Inventories by Divisions and States: End of 1963 and 1962

(In thousands of dollars)

Division and State	Value of inventories [1] at end of–							
	1963				1962			
	Total	Finished products	Work in process	Materials, supplies, fuels etc.	Total	Finished products	Work in process	Materials, supplies, fuels etc.
United States, total	59,898,913	20,434,035	18,119,148	21,345,730	58,079,855	19,887,875	17,260,329	20,931,651
New England	4,140,254	1,466,240	1,386,884	1,287,130	4,164,607	1,433,877	1,400,614	1,330,116
Maine	217,363	82,385	42,726	92,252	221,378	82,391	45,012	93,975
New Hampshire	191,477	62,750	65,321	63,406	197,456	63,363	67,414	66,679
Vermont	88,806	28,044	31,454	29,308	92,152	29,586	33,207	29,359
Massachusetts	1,902,039	662,564	615,083	624,392	1,909,480	663,938	619,754	625,788
Rhode Island	297,895	121,467	84,028	92,400	282,683	110,241	83,698	88,744
Connecticut	1,442,674	509,030	548,272	385,372	1,461,458	484,358	551,529	425,571
Middle Atlantic	13,268,768	4,589,449	4,375,407	4,303,912	12,985,689	4,431,246	4,265,206	4,289,237
New York	5,645,079	1,912,575	1,969,767	1,762,737	5,512,375	1,859,030	1,885,935	1,767,410
New Jersey	2,878,609	1,109,088	884,324	885,197	2,842,745	1,052,568	926,582	863,595
Pennsylvania	4,745,080	1,567,786	1,521,316	1,655,978	4,630,569	1,519,648	1,452,689	1,658,232
East North Central	16,137,614	5,350,981	5,079,659	5,706,974	15,543,886	5,242,419	4,791,780	5,509,687
Ohio	4,728,909	1,550,533	1,565,679	1,612,697	4,600,050	1,547,223	1,453,734	1,599,093
Indiana	2,400,045	849,944	695,233	854,868	2,314,759	823,713	660,385	830,661
Illinois	4,486,450	1,649,771	1,243,244	1,593,435	4,284,491	1,568,018	1,199,592	1,516,881
Michigan	2,891,666	734,493	1,104,715	1,052,458	2,783,986	734,093	1,043,113	1,006,780
Wisconsin	1,630,544	566,240	470,788	593,516	1,560,600	569,372	434,956	556,272
West North Central	3,773,981	1,238,706	1,166,151	1,369,124	3,460,370	1,182,367	987,550	1,290,453
Minnesota	869,469	315,360	250,482	303,627	814,404	292,073	227,676	294,655
Iowa	706,991	278,780	184,994	243,217	675,579	256,998	175,196	243,385
Missouri	1,501,608	385,477	553,593	562,538	1,268,216	374,263	408,299	485,654
North Dakota	18,892	10,137	1,049	7,706	22,150	11,244	1,201	9,705
South Dakota	32,428	16,427	3,061	12,940	30,199	15,261	2,791	12,147
Nebraska	210,935	93,079	45,861	71,995	215,935	99,905	47,317	68,713
Kansas	433,658	139,446	127,111	167,101	433,887	132,623	125,070	176,194
South Atlantic	7,767,842	2,263,721	1,654,632	3,849,489	7,619,696	2,200,168	1,559,241	3,860,287
Delaware	162,273	60,642	41,729	59,902	151,883	59,592	37,256	55,035
Maryland	876,482	353,980	230,711	291,791	855,212	328,532	229,875	296,805
District of Columbia	25,302	7,077	5,783	12,442	23,375	6,667	4,771	11,937
Virginia	1,339,395	289,926	224,947	824,522	1,319,551	278,105	227,919	813,527
West Virginia	502,469	201,115	153,801	147,553	485,190	204,077	133,858	147,255
North Carolina	2,470,721	439,922	356,039	1,674,760	2,473,480	428,489	335,312	1,709,679
South Carolina	664,878	280,551	171,575	212,752	690,566	287,857	159,860	242,849
Georgia	1,143,679	384,849	342,596	416,234	1,054,742	368,494	309,476	376,772
Florida	582,643	245,659	127,451	209,533	565,697	238,355	120,914	206,428
East South Central	3,530,208	1,294,290	796,865	1,439,053	3,360,218	1,209,783	765,897	1,384,538
Kentucky	1,305,579	515,151	149,747	640,681	1,262,479	478,560	141,121	642,798
Tennessee	1,000,075	368,905	264,834	366,336	970,711	350,551	265,970	354,190
Alabama	752,367	265,979	187,302	299,086	696,566	262,247	157,541	276,778
Mississippi	472,187	144,255	194,982	132,950	430,462	118,425	201,265	110,772
West South Central	3,437,014	1,429,898	778,570	1,228,546	3,249,307	1,361,639	734,011	1,153,657
Arkansas	358,596	103,828	63,878	190,890	317,318	96,732	58,116	162,470
Louisiana	589,620	257,435	104,616	227,569	557,104	260,040	99,190	197,874
Oklahoma	304,478	130,189	67,403	106,886	302,327	126,320	69,950	106,057
Texas	2,184,320	938,446	542,673	703,201	2,072,558	878,547	506,755	687,256
Mountain	992,359	419,978	277,971	294,410	987,287	408,352	273,594	305,341
Montana	102,042	49,141	30,045	22,856	102,432	51,826	27,976	22,630
Idaho	116,567	60,982	18,193	37,392	120,076	60,285	21,777	38,014
Wyoming	35,915	23,626	4,257	8,032	39,852	26,206	5,301	8,345
Colorado	289,333	135,388	67,866	86,079	275,997	123,302	65,241	87,454
New Mexico	45,060	12,337	17,179	15,544	50,818	12,239	23,985	14,594
Arizona	188,108	67,808	69,345	50,955	193,789	66,839	69,310	57,640
Utah	187,973	62,058	62,451	63,464	178,947	59,591	52,232	67,124
Nevada	27,361	8,638	8,635	10,088	25,376	8,064	7,772	9,540
Pacific	6,850,873	2,380,772	2,603,009	1,867,092	6,708,795	2,418,024	2,482,436	1,808,335
Washington	1,160,326	278,815	638,424	243,087	1,053,611	282,382	526,346	244,883
Oregon	465,737	222,405	88,252	155,080	456,499	220,472	84,730	151,297
California	5,128,697	1,842,576	1,867,456	1,418,665	5,111,740	1,880,524	1,863,868	1,367,348
Alaska	32,210	12,866	1,773	17,571	30,952	13,624	879	16,449
Hawaii	63,903	24,110	7,104	32,689	55,993	21,022	6,613	28,358

Note: The totals at the geographic area and U. S. level were derived from separate tabulations based on industry rather than geographic area detail. The sum of the geographic area detail does not add to the U. S. totals because of (1) independent rounding, and (2) independent correction to the industry tabulations and geographic area tabulations.

Expenditures for Plant and Equipment

Chapter 5

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4	Manufacturers' Expenditures for New Plant and Equipment, by Major Industry Groups, Divisions, and States: 1963	17

EXPENDITURES FOR PLANT AND EQUIPMENT

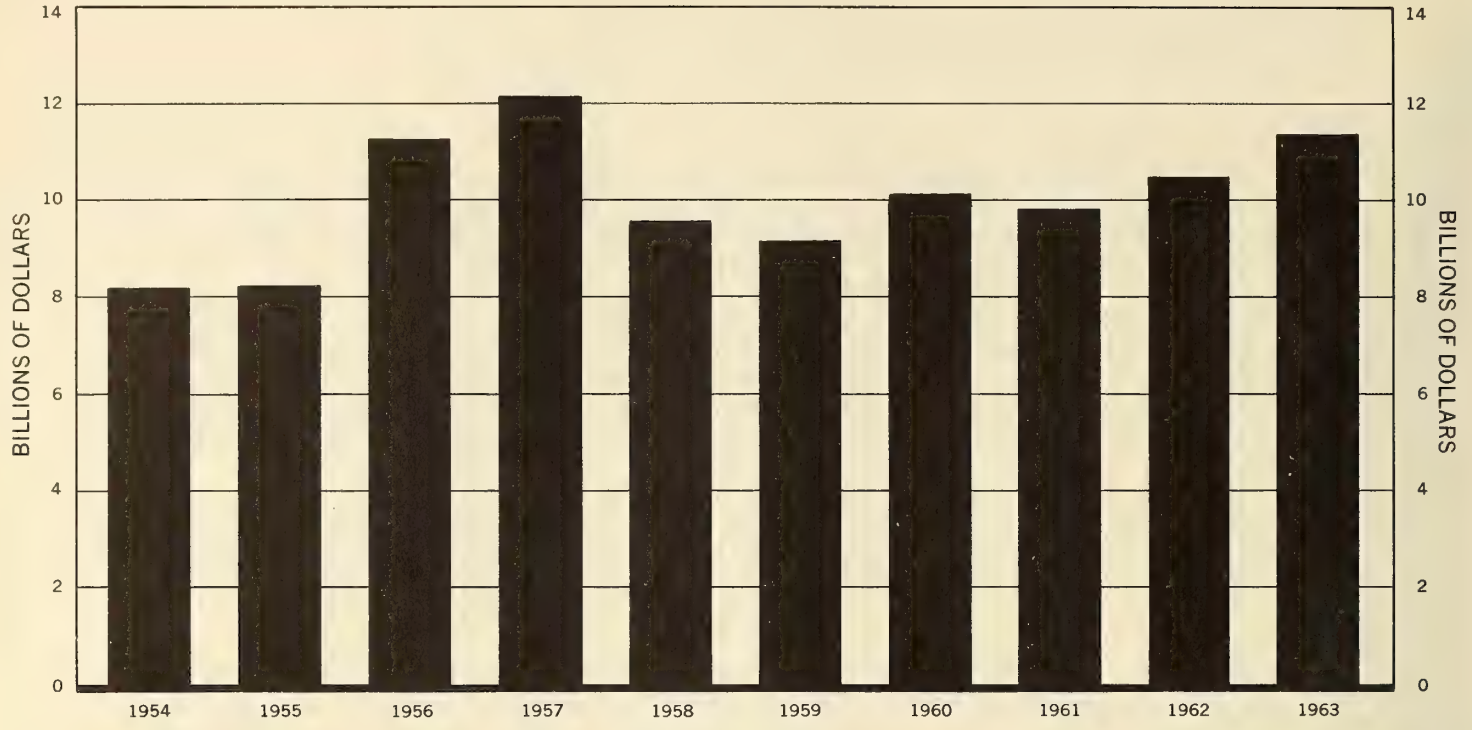
Expenditures—In the 1963 census, manufacturers were asked to report expenditures made during the year for permanent additions and major alterations to their plants, as well as for new machinery and equipment purchases, that were chargeable to fixed asset accounts of manufacturing establishments and were of a type for which depreciation accounts are ordinarily maintained. Expenditures for machinery and equipment were to include those made for replacement purposes, as well as for additions to plant capacity. Excluded from such expenditure totals are costs of maintenance and repairs charged as current operating expense; new facilities and equipment leased from nonmanufacturing concerns; new facilities owned by the Federal Government but operated under contract by private companies; and plant and equipment furnished to the manufacturer by communities and organizations.

In addition to total capital expenditures, respondents were requested to indicate the following subtotals: (a) New structures and additions to plant (including major alterations and capitalized repairs and improvements); (b) new machinery and new equipment (including capitalized repairs and improvements); and (c) expenditures for used plant and used equipment acquired from others (including the U.S. Government).

The figures include (a) the expenditures made at manufacturing plants that were in operation during any part of the year, plus (b) expenditures made at plants that were not as yet in production. The data on capital expenditures for plants not in production at the end of 1963 were collected on a separate report form (MA-101) requesting companies to report the value of new plant and new equipment put in place during the year. This form was mailed to (a) the 1,500 largest manufacturing companies; (b) all other companies which indicated on the census of manufactures establishment report form or the "Listing of Establishments" Form NC-X-1 that they had one or more manufacturing plants under construction but not yet in operation at the close of 1963.

The Census Bureau estimates of capital expenditures differ from those published in the joint Office of Business Economics-Securities and Exchange Commission survey. In addition to normal sampling variation, a major source of differences is to be found in the scope of the two series. Census data relate only to manufacturing establishments, whereas the OBE-SEC series covers all establishments of manufacturing companies—nonmanufacturing as well as manufacturing. On the other hand, manufacturing establishments of companies engaged primarily in nonmanufacturing activities are excluded from the OBE-SEC series but included in Census figures. Both series, it should be noted, exclude expenditures for plant and equipment at establishments owned by the Federal Government but operated under lease or contract by private companies.

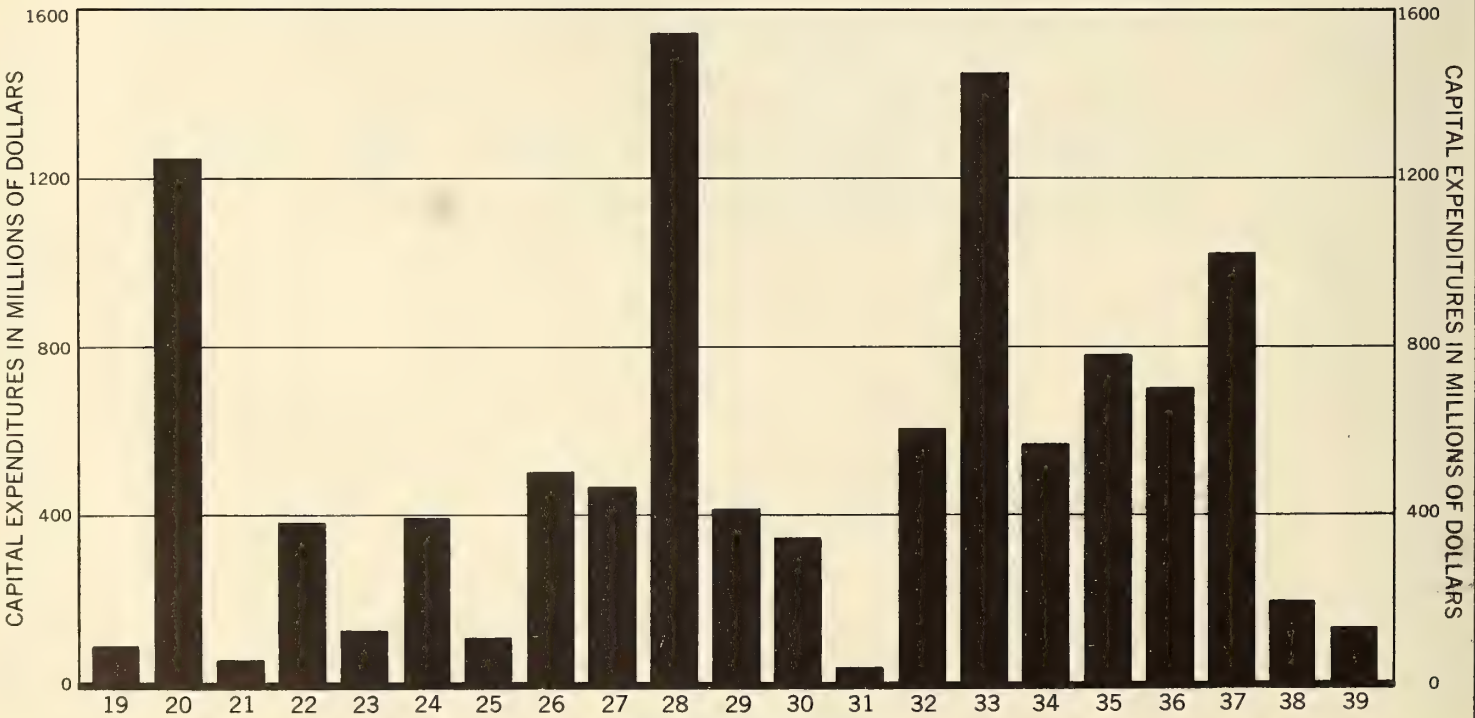
MANUFACTURERS' EXPENDITURES FOR PLANT AND EQUIPMENT: 1954-1963



U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

MANUFACTURERS' EXPENDITURES FOR PLANT AND EQUIPMENT BY MAJOR INDUSTRY GROUPS: 1963



U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. Manufacturers' Expenditures for Plant and Equipment: 1963 and Earlier Years

(Thousands of dollars except employees)

Year [1]	Expenditures for new plant and equipment [2]			Expenditures for used plant and equipment	All employees [3] (number)	Value added by manufacture [4]	Indexes of change for data (1958 = 100) in columns--		
	Total	New structures and additions to plant	New machinery and equipment						
	(a)	(b)	(c)	(d)	(e)	(f)	(a)	(e)	(f)
1963	11,370,935	2,965,545	8,405,408	699,851	16,234,506	192,103,102	119	105	136
1962 [5]	10,436,210	2,731,055	7,705,155	(NA)	16,154,702	179,071,122	109	105	127
1961 [5]	9,779,800	2,748,974	7,030,826	(NA)	15,729,570	164,281,080	102	102	116
1960 [5]	10,097,837	2,818,427	7,279,410	(NA)	16,149,888	163,998,531	106	105	116
1959 [5]	9,139,992	2,581,893	6,558,099	(NA)	16,062,862	161,535,816	96	104	114
1958	9,543,528	3,235,143	6,308,385	521,605	15,423,112	141,540,618	100	100	100
1957 [5]	12,143,965	3,864,795	8,279,170	(NA)	16,621,140	147,838,425	127	108	104
1956 [5]	11,233,177	3,471,488	7,761,689	(NA)	16,694,433	144,909,346	118	108	102
1955 [5]	8,233,138	2,425,493	5,807,645	(NA)	16,335,526	135,022,505	86	106	95
1954 [5]	8,200,739	2,458,962	5,741,777	381,358	15,645,491	117,032,326	86	101	83
1953 [5]	8,047,892	2,585,339	5,462,553	(NA)	16,693,076	121,659,136	84	108	86
1952 [5]	7,833,369	2,579,117	5,304,252	(NA)	15,732,722	109,162,079	82	102	77
1951 [5]	7,781,731	2,593,220	5,188,511	(NA)	15,309,638	102,085,814	82	99	72
1950 [2] [5]	5,041,299	1,399,703	3,641,569	(NA)	14,467,149	89,749,765	53	94	63
1949 [2] [5]	5,066,941	1,567,238	3,499,703	(NA)	13,566,949	75,366,527	53	88	53
1947 [2] [5] [6]	5,998,099	2,122,143	3,875,956	663,156	14,293,963	74,290,475	63	93	52

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available.

[1] The 1958 through 1963 figures include establishments classified in industry 3273, Ready Mixed Concrete, and industry 3599, Miscellaneous Machinery, that were engaged exclusively or almost exclusively in Machine Shop repair work. The data for such establishments are excluded from the figures for the period 1947 to 1957. The 1954 to 1963 figures include data for establishments engaged in the processing and distribution of fluid milk, industry group 202, Dairies. These establishments were not included in the figures for earlier years. The 1954 through 1963 figures include data for Logging Camps and Contractors, industry 2411, which were not included within the scope of the 1947 census and 1949 to 1953 annual survey years. In addition, the figures for 1957 and earlier years do not include data for Alaska and Hawaii.

[2] The figures for 1951 to 1963 include expenditures for plants under construction and not yet in operation. This information was not collected prior to 1951.

[3] Represents employment at operating manufacturing establishments. Figures for central administrative offices and auxiliary units are not included.

[4] For the period 1954 to 1963, value added by manufacture represents adjusted value added and for earlier years, unadjusted value added. Unadjusted value added is obtained by subtracting the cost of materials, supplies and containers, fuel, purchased electric energy, and contract work from the value of shipments for products manufactured plus receipts for services rendered. Adjusted value added also takes into account (a) value added by merchandising operations (that is, the difference between the sales value and cost of merchandise sold without further manufacture, processing, or assembly), plus (b) the net change in finished goods and work-in-process inventories between the beginning and end of the year.

[5] The expenditures figures for 1949 to 1953, 1955 to 1957, and 1959 to 1962 are estimates derived from a sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates do not exceed 1 percent.

[6] In 1947, very small establishments that accounted for approximately 1.6 percent of the total value added by manufacture did not report expenditure data and are not represented in the 1947 figures. See 1947 Census of Manufactures, Volume I, Chapter VI, for a measure of undercoverage by industry.

TABLE 2. Manufacturers' Expenditures for Plant and Equipment, by Industry Groups and Industries: 1963 and 1958

(Thousands of dollars)

Code	Industry group and industry	1963				1958			
		Expenditures for new plant and equipment[1]			Expenditures for used plant and equipment	Expenditures for new plant and equipment[1]			Expenditures for used plant and equipment
		Total	New structures and additions to plant	New machinery and equipment		Total	New structures and additions to plant	New machinery and equipment	
	All industries, total	11,370,935	2,965,545	8,405,408	699,851	9,543,528	3,236,115	6,307,413	521,605
20	Food and kindred products	1,249,245	336,334	912,911	75,281	1,018,303	309,816	708,487	44,902
21	Tobacco manufactures	53,843	12,100	41,743	2,852	48,391	17,356	31,035	877
22	Textile mill products	382,414	67,894	314,520	46,345	212,393	37,993	174,400	34,568
23	Apparel and related products	128,582	31,993	96,589	8,089	89,713	25,882	63,831	8,088
24	Lumber and wood products	394,729	129,710	265,019	33,679	286,768	94,568	192,200	20,883
25	Furniture and fixtures	110,180	40,582	69,598	12,277	82,248	30,821	51,427	7,193
26	Paper and allied products	708,532	118,838	589,694	23,788	634,446	155,636	478,810	19,954
27	Printing and publishing	463,904	111,020	352,884	36,131	421,547	143,432	278,115	28,519
28	Chemicals and allied products	1,545,689	354,876	1,190,816	40,846	1,243,939	311,517	932,955	22,138
29	Petroleum and coal products	413,681	283,759	129,902	8,810	681,805	527,789	154,016	2,590
30	Rubber and plastics products, n.e.c.	343,466	58,564	284,902	16,120	197,138	43,317	153,821	6,210
31	Leather and leather products	34,566	6,257	28,309	3,896	31,825	7,092	24,733	3,995
32	Stone, clay and glass products	607,581	156,428	451,153	33,656	488,628	140,952	347,676	19,995
33	Primary metal industries	1,446,303	386,988	1,059,315	52,077	1,543,695	588,138	955,557	29,897
34	Fabricated metal products	570,077	137,737	432,340	60,907	463,594	146,817	316,777	45,144
35	Machinery, except electrical	783,076	170,968	612,118	85,110	699,636	212,666	486,970	66,798
36	Electrical machinery	701,947	176,031	525,916	48,304	468,039	156,895	311,144	54,800
37	Transportation equipment	1,022,004	273,140	748,864	93,077	629,621	184,415	445,206	83,800
38	Instruments and related products	191,865	52,324	139,541	7,522	114,608	34,508	80,100	9,255
39	Miscellaneous manufacturing	131,033	34,101	96,937	9,010	110,585	36,636	73,949	6,133
19	Ordnance and accessories[1]	88,218	25,881	62,337	8,771	74,986	29,369	45,617	5,755
20	Food and kindred products	1,249,245	336,334	912,911	75,281	1,018,303	309,816	708,487	44,902
201	Meat products	135,966	45,897	90,069	9,514	111,176	42,734	68,442	3,447
2011	Meat slaughtering plants	80,235	28,265	51,970	6,301	65,860	24,802	41,058	2,145
2013	Meat processing plants	21,425	6,218	15,207	2,243	17,237	7,554	9,683	858
2015	Poultry dressing plants	34,306	11,414	22,892	970	28,079	10,378	17,701	444
202	Dairies	195,971	51,420	144,551	12,312	205,430	62,267	143,163	7,836
2021	Creamery butter	9,930	2,261	7,669	901	17,094	5,550	11,544	519
2022	Natural and processed cheese	15,866	5,103	10,763	734	13,739	5,897	7,842	126
2023	Condensed and evaporated milk	12,113	3,406	8,707	812	12,746	3,338	9,408	117
2024	Ice cream and frozen desserts	31,915	8,059	23,856	1,548	26,150	5,092	21,058	1,156
2026	Fluid milk	126,147	32,591	93,556	8,317	135,701	42,390	93,311	5,904
203	Canned and frozen foods	176,282	62,849	113,433	10,103	106,290	36,103	70,187	5,653
2031	Canned and cured seafoods	6,296	2,389	3,907	784	3,546	1,013	2,533	419
2032	Canned specialties	25,582	12,800	12,782	554	16,492	6,463	10,029	387
2033	Canned fruits and vegetables	66,574	18,210	48,364	5,237	43,713	14,030	29,683	2,486
2034	Dehydrated foods products	16,199	7,180	9,019	269	6,686	2,242	4,444	547
2035	Pickles, sauces, salad dressings	10,967	2,481	8,486	366	11,197	5,528	5,669	453
2036	Fresh or frozen packaged fish	6,095	1,985	4,110	1,049	3,673	1,389	2,284	834
2037	Frozen fruits and vegetables	44,569	17,804	26,765	1,844	20,952	5,438	15,514	527
204	Grain mills	127,722	32,605	95,117	6,485	122,929	36,429	86,500	7,250
2041	Flour mills	23,485	4,808	18,677	374	22,109	7,849	14,260	412
2042	Prepared animal feeds	53,394	17,744	35,650	5,806	55,042	18,831	36,211	6,366
2043	Cereal preparations	15,273	3,657	11,616	95	17,674	4,656	13,018	111
2044	Rice milling	3,299	1,183	2,116	163	1,442	491	951	247
2045	Blended and prepared flour	6,142	770	5,372	29	8,606	1,186	7,420	30
2046	Wet corn milling	26,129	4,443	21,686	18	18,056	3,416	14,640	84
205	Bakery products	121,709	23,436	98,273	6,689	119,606	29,814	89,792	3,692
2051	Bread and related products	95,280	15,673	79,607	3,353	104,085	26,997	77,088	3,160
2052	Biscuit, crackers, and cookies	26,429	7,763	18,666	3,336	15,521	2,817	12,704	532
206	Sugar	73,611	12,317	61,285	753	42,836	9,195	33,641	424
2061	Raw cane sugar	19,289	2,701	16,588	166	8,037	1,245	6,792	(D)
2062	Cane sugar refining	16,209	1,968	14,241	330	26,829	7,171	19,658	(D)
2063	Beet sugar	38,113	7,648	30,456	257	7,970	779	7,191	403
207	Candy and related products	39,346	10,206	29,140	2,206	32,381	8,777	23,604	730
2071	Confectionery products	28,094	7,479	20,615	810	24,872	7,356	17,516	688
2072	Chocolate and cocoa products	8,371	2,458	5,913	1,341	4,129	917	3,212	9
2073	Chewing gum	2,881	269	2,612	55	3,380	504	2,876	33
208	Beverages	225,084	51,343	173,741	20,104	163,383	49,299	114,084	11,024
2082	Malt liquors	86,217	20,095	66,122	8,600	72,895	25,435	47,460	6,333
2083	Malt	3,002	678	2,324	2,190	3,131	1,269	1,862	33
2084	Wines and brandy	7,303	1,543	5,760	2,019	7,921	3,649	4,272	324
2085	Distilled liquor, except brandy	15,480	4,104	11,376	285	9,908	2,992	6,916	365
2086	Bottled and canned soft drinks	100,771	20,328	80,443	6,500	64,153	14,563	49,590	3,845
2087	Flavorings	12,311	4,595	7,716	510	5,375	1,391	3,984	124

See footnotes at end of table.

TABLE 2. Manufacturers' Expenditures for Plant and Equipment, by Industry Groups and Industries: 1963 and 1958—Continued

(Thousands of dollars)

Code	Industry group and industry	1963				1958			
		Expenditures for new plant and equipment[1]			Expenditures for used plant and equipment	Expenditures for new plant and equipment[1]			Expenditures for used plant and equipment
		Total	New structures and additions to plant	New machinery and equipment		Total	New structures and additions to plant	New machinery and equipment	
20	Food and kindred products--Con.								
209	Miscellaneous foods and kindred products	153,554	46,261	107,293	7,115	114,272	35,198	79,074	4,846
2091	Cottonseed oil mills	12,475	2,314	10,161	456	6,605	1,721	4,884	267
2092	Soybean oil mills	10,238	1,763	8,475	528	14,668	5,045	9,623	427
2093	Vegetable oil mills, n.e.c.	1,561	286	1,275	2,938	2,032	598	1,434	471
2094	Animal and marine fats and oils	13,659	2,398	11,261	823	12,745	2,563	10,182	295
2095	Roasted coffee	23,459	6,218	17,241	450	23,070	5,864	17,206	23
2096	Shortening and cooking oils	19,490	3,919	15,571	269	12,389	1,886	10,503	1,077
2097	Manufactured ice	5,741	2,603	3,138	785	6,368	3,395	2,973	1,191
2098	Macaroni and spaghetti	4,786	423	4,363	11	5,274	1,566	3,708	141
2099	Food preparations, n.e.c.	62,145	26,337	35,808	855	31,121	12,560	18,561	954
21	Tobacco manufactures	53,843	12,100	41,743	2,852	48,391	17,356	31,035	877
2111	Cigarettes	29,651	3,215	26,436	460	20,490	3,243	17,247	506
2121	Cigars	4,246	1,747	2,499	1,435	7,050	1,340	5,710	133
2131	Chewing and smoking tobacco	927	225	702	99	1,079	146	933	174
2141	Tobacco stemming and redrying	19,019	6,913	12,106	858	19,772	12,627	7,145	64
22	Textile mill products	382,414	67,894	314,520	46,345	212,393	37,993	174,400	34,568
2211	Weaving mills, cotton	113,366	22,230	91,136	16,832	48,441	6,775	41,666	7,775
2221	Weaving mills, synthetics	35,798	4,315	31,483	4,218	15,043	2,091	12,952	3,429
2231	Weaving, finishing mills, wool	15,539	2,947	12,592	2,999	9,702	1,849	7,853	3,525
2241	Narrow fabric mills	6,907	1,571	5,336	444	6,307	1,859	4,448	691
225	Knitting mills	63,170	10,794	52,374	7,205	44,215	7,879	36,336	6,484
2251	Women's hosiery, except socks	16,189	2,235	13,952	985	19,757	2,441	17,316	4,530
2252	Hosiery, n.e.c.	6,203	766	5,437	1,020				
2253	Knit outerwear mills	17,277	3,241	14,036	1,392	11,155	1,259	9,896	1,206
2254	Knit underwear mills	4,772	1,132	3,640	479	5,916	2,847	3,069	125
2256	Knit fabric mills	18,409	3,409	15,000	1,951	7,132	1,302	5,830	573
2259	Knitting mills, n.e.c.	320	11	309	1,378	255	30	225	50
226	Textile finishing, except wool	47,815	8,063	39,752	1,816	21,396	3,823	17,573	3,524
2261	Finishing plants, cotton	29,273	4,075	25,198	744	15,672	2,884	12,788	2,155
2262	Finishing plants, synthetic	13,890	2,928	10,962	879	3,607	739	2,868	1,131
2269	Finishing plants, n.e.c.	4,652	1,060	3,592	193	2,117	200	1,917	238
227	Floor covering mills	16,125	3,388	12,737	2,035	14,527	4,197	10,330	1,006
2271	Woven carpets and rugs	4,151	533	3,618	1,009	5,854	1,315	4,539	150
2272	Tufted carpets and rugs	11,512	2,796	8,716	1,005	8,007	2,723	5,284	841
2279	Carpets and rugs, n.e.c.	462	59	403	21	666	159	507	15
228	Yarn and thread mills	51,504	8,122	43,382	7,399	25,639	3,644	21,995	6,503
2281	Yarn mills, except wool	34,706	4,454	30,252	3,159	15,507	1,715	13,792	2,705
2282	Throwing and winding mills	6,231	1,498	4,733	2,446	3,164	418	2,746	710
2283	Wool yarn mills	7,256	1,283	5,973	1,396	5,149	1,011	4,138	3,032
2284	Thread mills	3,311	887	2,424	398	1,819	500	1,319	56
229	Miscellaneous textile goods	32,192	6,464	25,728	3,384	27,123	5,876	21,247	1,631
2291	Felt goods, n.e.c.	1,791	228	1,563	81	1,099	164	935	68
2292	Lace goods	538	39	499	256	1,194	116	1,078	181
2293	Padding and upholstery filling	1,934	644	1,290	145	2,372	873	1,499	114
2294	Processed textile waste	1,215	318	897	296	929	371	558	79
2295	Coated fabric, not rubberized	12,396	2,948	9,448	336	8,576	2,174	6,402	97
2296	Tire cord and fabric	3,010	461	2,549	841	6,029	1,030	4,999	165
2297	Scouring and combing plants	3,335	702	2,633	408	1,275	139	1,136	478
2298	Cordage and twine	2,689	530	2,159	594	1,632	490	1,142	344
2299	Textile goods, n.e.c.	5,284	594	4,690	430	4,017	519	3,498	105
23	Apparel and related products	128,582	31,993	96,589	8,089	89,713	25,882	63,831	8,088
2311	Men's and boys' suits and coats	6,856	1,322	5,534	995	4,906	1,297	3,609	309
232	Men's and boys' furnishings	25,242	6,005	19,237	1,429	16,503	4,500	12,003	1,072
2321	Men's dress shirts and nightwear	8,770	1,947	6,823	467	5,687	1,441	4,246	147
2322	Men's and boys' underwear	1,087	251	836	27	451	221	230	67
2323	Men's and boys' neckwear	504	159	345	6	584	261	323	11
2327	Separate trousers	6,215	1,598	4,617	187	3,970	1,092	2,878	366
2328	Work clothing	5,839	1,629	4,210	451	3,452	869	2,583	361
2329	Men's and boys' clothing, n.e.c.	2,827	421	2,406	291	2,359	616	1,743	120

See footnotes at end of table.

TABLE 2. Manufacturers' Expenditures for Plant and Equipment, by Industry Groups and Industries: 1963 and 1958—Continued

(Thousands of dollars)

Code	Industry group and industry	1963				1958			
		Expenditures for new plant and equipment[1]			Expenditures for used plant and equipment	Expenditures for new plant and equipment[1]			Expenditures for used plant and equipment
		Total	New structures and additions to plant	New machinery and equipment		Total	New structures and additions to plant	New machinery and equipment	
23	Apparel and related products--continued								
233	Women's and misses' outerwear	36,466	10,189	26,277	1,904	22,362	6,761	15,601	2,175
2331	Blouses	4,418	870	3,548	204	2,277	368	1,909	229
2335	Dresses	12,699	2,436	10,263	538	9,436	1,735	7,701	653
2337	Women's suits, coats, and skirts	12,334	5,286	7,048	531	6,984	3,393	3,591	343
2339	Women's outerwear, n.e.c	7,015	1,597	5,418	631	3,577	1,265	2,312	950
234	Women's and children's underwear	9,926	1,590	8,336	541	8,758	2,848	5,910	678
2341	Women's and children's underwear	6,412	977	5,435	451	5,404	1,552	3,852	569
2342	Corsets and allied garments	3,514	613	2,901	90	3,354	1,296	2,058	109
235	Millinery, hats and caps	2,960	535	2,425	288	2,446	419	2,027	151
2351	Millinery	686	17	669	33	1,371	243	1,128	65
2352	Hats and caps	2,274	518	1,756	255	1,075	176	899	86
236	Children's outerwear	6,874	1,419	5,455	568	5,014	840	4,174	431
2361	Children's dresses and blouses	2,973	953	2,020	239	1,847	367	1,480	131
2363	Children's coats and suits	1,106	74	1,032	81	783	99	684	51
2369	Children's outerwear, n.e.c	2,795	392	2,403	248	2,384	374	2,010	249
2371	Fur goods	1,245	80	1,165	50	2,644	400	2,244	188
238	Miscellaneous apparel	5,624	1,739	3,885	264	3,644	689	2,955	511
2381	Fabric dress and work gloves	1,092	341	751	67	556	69	487	128
2384	Robes and dressing gowns	818	165	653	49	459	164	295	47
2385	Waterproof outergarments	2,185	989	1,196	39	958	79	879	59
2386	Leather and sheeplined clothing	315	76	239	16	338	63	275	166
2387	Apparel belts	697	19	678	81	816	172	644	69
2389	Apparel, n.e.c	517	149	368	12	517	142	375	42
239	Fabricated textiles, n.e.c	33,389	9,114	24,275	2,050	23,436	8,071	15,365	2,573
2391	Curtains and draperies	2,936	1,074	1,862	94	1,861	865	996	106
2392	Housefurnishings, n.e.c	8,384	2,230	6,154	421	6,072	2,073	3,999	180
2393	Textile bags	1,878	537	1,341	146	1,512	369	1,143	224
2394	Canvas products	2,090	612	1,478	322	1,848	755	1,093	158
2395	Pleating and stitching	2,837	789	2,048	233	5,769	2,005	3,764	1,054
2396	Apparel findings	8,321	2,512	5,809	324				
2397	Schiffli machine embroideries	2,425	284	2,141	355	3,593	751	2,842	658
2399	Textile products, n.e.c	4,518	1,076	3,442	155	2,781	1,253	1,528	193
24	Lumber and wood products	394,729	129,710	265,019	33,679	286,768	94,568	192,200	20,883
2411	Logging camps and contractors	95,602	14,899	80,703	7,701	68,357	14,152	54,205	3,823
242	Sawmills and planing mills	181,545	83,244	98,301	12,259	138,817	54,690	84,127	9,231
2421	Sawmills and planing mills	172,471	80,783	91,688	10,864	129,403	51,967	77,436	8,297
2426	Hardwood dimension and flooring	7,106	2,036	5,070	1,075	7,645	2,120	5,525	659
2429	Special product sawmills, n.e.c	1,968	425	1,543	320	1,682	603	1,079	275
243	Millwork and related products	70,563	18,563	52,000	9,895	46,250	13,645	32,605	5,130
2431	Millwork plants	20,935	7,813	13,122	2,142	16,878	6,421	10,457	1,584
2432	Veneer and plywood plants	41,887	8,157	33,730	7,201	24,954	5,429	19,525	3,043
2433	Prefabricated wood products	7,741	2,593	5,148	552	4,418	1,795	2,623	503
244	Wooden containers	8,531	3,296	5,235	1,306	6,194	2,035	4,159	1,227
2441	Nailed wooden boxes and shook	6,014	2,754	3,260	673	3,251	1,121	2,130	762
2442	Wirebound boxes and crates	1,565	316	1,249	469	1,226	181	1,045	319
2443	Veneer and plywood containers	336	120	216	146	579	199	380	112
2445	Cooperage	616	106	510	18	1,138	534	604	34
249	Miscellaneous wood products	38,488	9,708	28,780	2,518	27,150	10,046	17,104	1,472
2491	Wood preserving	5,548	1,004	4,544	533	3,661	868	2,793	287
2499	Wood products, n.e.c	32,940	8,704	24,236	1,985	23,489	9,178	14,311	1,185
25	Furniture and fixtures	110,180	40,582	69,598	12,277	82,248	30,821	51,427	7,193
251	Household furniture	68,842	23,497	45,345	6,897	51,543	18,955	32,588	5,008
2511	Wood furniture not upholstered	40,409	14,448	25,961	2,721	26,234	10,837	15,397	1,942
2512	Wood furniture, upholstered	13,653	5,473	8,180	2,373	11,024	3,909	7,115	949
2514	Metal household furniture	6,840	1,127	5,713	1,146	6,266	1,975	4,291	750
2515	Mattresses and bedsprings	7,310	2,311	4,999	612	7,333	1,773	5,560	1,364
2519	Household furniture, n.e.c	630	138	492	27	686	461	225	3
252	Office furniture	15,710	8,056	7,654	1,871	6,093	1,718	4,375	352
2521	Wood office furniture	1,511	873	638	63	840	334	506	63
2522	Metal office furniture	14,199	7,183	7,016	1,808	5,253	1,384	3,869	289

See footnotes at end of table.

TABLE 2. Manufacturers' Expenditures for Plant and Equipment, by Industry Groups and Industries: 1963 and 1958—Continued

(Thousands of dollars)

Code	Industry group and industry	1963				1958			
		Expenditures for new plant and equipment [1]			Expenditures for used plant and equipment	Expenditures for new plant and equipment [1]			Expenditures for used plant and equipment
		Total	New structures and additions to plant	New machinery and equipment		Total	New structures and additions to plant	New machinery and equipment	
25	Furniture and fixtures--Continued								
2531	Public building furniture	4,369	1,203	3,166	454	4,941	1,937	3,004	587
254	Partitions and fixtures	15,286	5,182	10,104	2,803	13,644	5,281	8,363	939
259	Furniture and fixtures, n.e.c	5,973	2,644	3,329	270	6,027	2,930	3,097	307
2591	Venetian blinds and shades	4,282	2,381	1,901	150	3,336	1,460	1,876	181
2599	Furniture and fixtures, n.e.c	1,691	263	1,428	120	2,691	1,470	1,221	126
26	Paper and allied products	708,532	118,838	589,694	23,788	634,446	155,636	478,810	19,954
2611	Pulp mills	38,899	7,454	31,445	349	42,991	9,075	33,916	192
2621	Paper mills, except building	232,779	29,948	202,831	2,042	258,769	55,057	203,712	2,451
2631	Paperboard mills	159,528	32,835	126,693	2,962	102,100	16,505	85,595	2,594
264	Paper and paperboard products	128,520	21,912	106,608	7,978	81,493	20,397	61,096	7,606
2641	Paper coating and glazing	45,602	8,753	36,849	1,402	16,837	3,198	13,639	820
2642	Envelopes	8,118	1,083	7,035	1,305	6,430	822	5,608	666
2643	Bags, except textile bags	26,671	4,114	22,557	3,458	18,523	3,259	15,264	2,496
2644	Wallpaper	359	25	334	18	416	83	333	43
2645	Die cut paper and board	7,731	1,643	6,088	862	10,613	4,693	5,920	304
2646	Pressed and molded pulp goods	11,558	1,312	10,246	44	2,170	384	1,786	46
2647	Sanitary paper products	16,628	2,741	13,887	280	26,504	7,958	18,546	3,231
2649	Converted paper products, n.e.c	11,853	2,241	9,612	609				
265	Paperboard containers and boxes	140,741	26,014	114,727	10,410	136,008	52,435	83,573	6,940
2651	Folding paperboard boxes	36,008	7,936	28,072	3,753	34,081	16,655	17,426	1,768
2652	Set-up paperboard boxes	5,049	751	4,298	973	5,930	1,423	4,507	475
2653	Corrugated shipping containers	54,094	12,711	41,383	3,266	51,955	17,777	34,178	3,133
2654	Sanitary food containers	37,901	3,426	34,475	2,170	35,774	15,591	20,183	1,367
2655	Fiber cans, tubes, drums, etc	7,689	1,190	6,499	248	8,268	989	7,279	197
2661	Building paper and board mills	8,065	675	7,390	47	13,085	2,167	10,918	171
27	Printing and publishing	463,904	111,020	352,884	36,131	421,547	143,432	278,115	28,519
2711	Newspapers	135,198	39,263	95,935	7,788	148,209	71,666	76,543	7,494
2721	Periodicals	33,784	13,921	19,863	333	35,051	13,206	21,845	656
273	Books	50,371	15,195	35,176	3,515	23,936	8,492	15,444	1,742
2731	Books, publishing and printing	25,426	9,423	16,003	883	13,090	5,699	7,391	610
2732	Book printing	24,945	5,772	19,173	2,632	10,846	2,793	8,053	1,132
2741	Miscellaneous publishing	7,113	2,262	4,851	173	5,993	1,501	4,492	337
275	Commercial printing	179,941	32,507	147,434	19,781	158,634	38,416	120,218	12,765
2751	Printing, except lithographic	99,228	19,217	80,011	10,773	155,038	37,834	117,204	12,598
2752	Printing, lithographic	76,877	12,110	64,767	8,905				
2753	Engraving and plate printing	3,836	1,180	2,656	103	3,596	582	3,014	167
2761	Manifold business forms	23,084	3,183	19,901	1,567	14,755	2,590	12,165	2,385
2771	Greeting card manufacturing	6,847	1,898	4,949	173	5,154	1,343	3,811	394
278	Bookbinding and related work	14,114	1,289	12,825	691	13,426	2,657	10,769	760
2782	Blankbooks; looseleaf binders	6,120	540	5,580	177	6,805	1,602	5,203	149
2789	Bookbinding and related work	7,994	749	7,245	514	6,621	1,055	5,566	611
279	Printing trades services	13,452	1,502	11,950	2,110	16,389	3,561	12,828	1,986
2791	Typesetting	6,747	506	6,241	982	7,181	1,312	5,869	1,012
2793	Photoengraving	5,720	925	4,795	694	6,992	1,222	5,770	777
2794	Electrotyping and stereotyping	985	71	914	434	2,216	1,027	1,189	197
28	Chemicals and allied products	1,545,689	354,876	1,190,816	40,846	1,243,939	311,517	932,955	22,138
281	Basic chemicals	813,266	173,814	639,452	7,059	666,035	155,769	510,266	6,193
2812	Alkalies and chlorine	57,470	6,590	50,880	78	27,871	2,616	25,255	3,369
2813	Industrial gases	93,518	18,059	75,459	2,846	48,578	7,613	40,965	376
2814	Cyclic (coal tar) crudes	2,225	198	2,027	1	4,036	1,253	2,783	8
2815	Intermediate coal tar products	104,600	15,739	88,861	382	73,919	21,239	52,680	337
2816	Inorganic pigments	17,365	1,988	15,377	358	42,880	12,285	30,595	109
2818	Organic chemicals, n.e.c	400,981	73,068	327,913	1,624	330,317	76,389	253,928	933
2819	Inorganic chemicals, n.e.c	137,107	58,172	78,935	1,770	138,434	34,374	104,060	1,061

See footnotes at end of table.

TABLE 2. Manufacturers' Expenditures for Plant and Equipment, by Industry Groups and Industries: 1963 and 1958—Continued

(Thousands of dollars)

Code	Industry group and industry	1963				1958			
		Expenditures for new plant and equipment [1]			Expenditures for used plant and equipment	Expenditures for new plant and equipment [1]			Expenditures for used plant and equipment
		Total	New structures and additions to plant	New machinery and equipment		Total	New structures and additions to plant	New machinery and equipment	
28	Chemicals and allied products--Con.								
282	Fibers, plastics, rubbers	378,561	59,171	319,390	14,282	291,206	59,747	231,459	3,430
2821	Plastics materials and resins	137,781	25,842	111,939	12,794	178,882	42,127	136,755	2,144
2822	Synthetic rubber	32,328	3,755	28,573	286	16,046	2,531	13,515	740
2823	Cellulosic man-made fibers	38,129	5,511	32,618	472	42,619	3,973	38,646	543
2824	Organic fibers, noncellulosic	170,323	24,063	146,260	730	53,659	11,116	42,543	3
283	Drugs	113,328	54,153	59,178	2,442	111,688	43,551	68,137	526
2831	Biological products	10,091	4,866	5,225	333	4,565	3,365	1,200	86
2833	Medicinals and botanicals	13,951	4,073	9,878	153	34,770	9,212	25,558	64
2834	Pharmaceutical preparations	89,286	45,214	44,075	1,956	72,353	30,974	41,379	376
284	Cleaning and toilet goods	84,731	22,743	61,988	10,099	42,322	12,697	29,625	760
2841	Soap and other detergents	44,056	10,898	33,158	1,353	17,795	3,348	14,447	148
2842	Polishes and sanitation goods	13,306	3,903	9,403	3,238	7,082	2,237	4,845	313
2843	Surface active agents	7,183	1,392	5,791	314	3,127	545	2,582	30
2844	Toilet preparations	20,186	6,550	13,636	5,194	14,318	6,567	7,751	269
2851	Paints and allied products	37,705	13,091	24,614	2,149	35,363	16,503	18,860	5,357
2861	Gum and wood chemicals	5,638	1,410	4,228	127	4,928	630	4,298	16
287	Agricultural chemicals	66,518	19,489	47,029	2,586	39,929	9,014	30,915	906
2871	Fertilizers	45,476	13,908	31,568	977	24,276	4,252	20,024	121
2872	Fertilizers, mixing only	11,987	3,602	8,385	1,253	8,676	3,270	5,406	357
2879	Agricultural chemicals, n.e.c	9,055	1,979	7,076	356	6,977	1,492	5,485	428
289	Miscellaneous chemical products	45,942	11,005	34,937	2,102	53,001	13,606	39,395	4,950
2891	Glue and gelatin	9,778	2,676	7,102	900	8,077	1,964	6,113	175
2892	Explosives	5,500	1,305	4,195	385	9,350	2,147	7,203	76
2893	Printing ink	4,632	1,397	3,235	148	4,817	1,851	2,966	65
2895	Carbon black	3,972	640	3,332	20	4,612	667	3,945	-
2899	Chemical preparations, n.e.c	22,060	4,987	17,073	649	26,145	6,977	19,168	4,634
29	Petroleum and coal products	413,681	283,759	129,902	8,810	681,805	527,789	154,016	2,590
2911	Petroleum refining	385,126	275,279	109,847	6,051	656,788	518,202	138,586	1,591
295	Paving and roofing materials	22,009	6,595	15,414	2,461	16,469	4,939	11,530	801
2951	Paving mixtures and blocks	15,055	4,965	10,090	2,135	9,856	3,785	6,071	753
2952	Asphalt felts and coatings	6,954	1,630	5,324	326	6,613	1,154	5,459	48
299	Petroleum and coal products, n.e.c	6,546	1,905	4,641	298	8,548	4,648	3,900	198
2992	Lubricating oils and greases	4,703	1,598	3,105	217	7,230	3,964	3,266	167
2999	Petroleum and coal products, n.e.c	1,843	307	1,536	81	1,318	684	634	31
30	Rubber and plastics products, n.e.c	343,466	58,564	284,902	16,120	197,138	43,317	153,821	6,210
3011	Tires and inner tubes	112,783	14,640	98,143	976	72,269	12,596	59,673	1,082
3021	Rubber footwear	6,903	822	6,081	286	3,109	461	2,648	84
3031	Reclaimed rubber	1,309	53	1,256	5	964	100	864	-
3069	Rubber products, n.e.c	64,955	12,752	52,203	3,388	43,603	9,016	34,587	2,179
3079	Plastics products, n.e.c	157,516	30,297	127,219	11,465	77,193	21,144	56,049	2,865
31	Leather and leather products	34,566	6,257	28,309	3,896	31,825	7,092	24,733	3,995
3111	Leather tanning and finishing	6,480	756	5,724	523	7,905	1,727	6,178	595
3121	Industrial leather belting	742	75	667	29	1,233	154	1,079	53
3131	Footwear cut stock	1,620	184	1,436	333	2,002	563	1,439	319
314	Footwear, except rubber	19,570	4,386	15,184	2,453	15,123	3,355	11,768	2,690
3141	Shoes, except rubber	18,470	4,225	14,245	2,398	14,533	3,252	11,281	2,559
3142	House slippers	1,100	161	939	55	590	103	487	131
3151	Leather gloves	328	96	232	42	263	88	175	33
3161	Luggage	1,908	139	1,769	251	1,504	292	1,212	119
317	Purses and small leather goods	3,152	412	2,740	233	2,953	513	2,440	146
3171	Handbags and purses	1,890	282	1,608	143	1,575	285	1,290	26
3172	Small leather goods	1,262	130	1,132	90	1,378	228	1,150	120
3199	Leather goods, n.e.c	766	209	557	32	842	400	442	40
32	Stone, clay, and glass products	607,581	156,428	451,153	33,656	488,628	140,952	347,676	19,995
3211	Flat glass	28,244	5,106	23,138	622	21,607	5,205	16,402	711

See footnotes at end of table.

TABLE 2. Manufacturers' Expenditures for Plant and Equipment, by Industry Groups and Industries: 1963 and 1958—Continued

(Thousands of dollars)

Code	Industry group and industry	1963				1958			
		Expenditures for new plant and equipment [1]			Expenditures for used plant and equipment	Expenditures for new plant and equipment [1]			Expenditures for used plant and equipment
		Total	New structures and additions to plant	New machinery and equipment		Total	New structures and additions to plant	New machinery and equipment	
32	Stone, clay, and glass products--Con.								
322	Pressed and blown glassware	76,469	19,728	56,741	1,067	50,551	19,440	31,111	1,076
3221	Glass containers	53,805	13,495	40,310	238	31,164	10,728	20,436	833
3229	Pressed and blown glass, n.e.c	22,664	6,233	16,431	829	19,387	8,712	10,675	243
3231	Products of purchased glass	13,223	2,932	10,291	1,759	16,526	4,983	11,543	1,049
3241	Cement, hydraulic	120,843	36,192	84,651	526	113,095	29,844	83,251	1,286
325	Structural clay products	42,192	13,233	28,959	1,353	34,862	12,459	22,403	1,932
3251	Brick and structural tile	19,344	6,434	12,910	589	14,023	5,021	9,002	597
3253	Ceramic wall and floor tile	9,070	3,348	5,722	112	3,276	1,046	2,230	58
3255	Clay refractories	7,936	1,521	6,415	447	10,804	4,391	6,413	1,152
3259	Structural clay products, n.e.c	5,842	1,930	3,912	205	6,759	2,001	4,758	125
326	Pottery and related products	11,169	2,057	9,112	2,136	10,770	3,640	7,130	419
3261	Vitreous plumbing fixtures	2,442	512	1,930	66	1,613	647	966	29
3262	Vitreous china food utensils	724	39	685	1,641	906	172	734	5
3263	Earthenware food utensils	797	33	764	27	586	61	525	73
3264	Porcelain electrical supplies	4,142	579	3,563	123	4,390	1,424	2,966	71
3269	Pottery products, n.e.c	3,064	894	2,170	279	3,275	1,336	1,939	241
327	Concrete and plaster products	210,634	52,079	158,555	18,736	157,160	46,376	110,784	9,607
3271	Concrete block and brick	31,143	6,132	25,011	2,350	22,790	5,585	17,205	960
3272	Other concrete products	43,550	11,918	31,632	4,627	44,310	14,283	30,027	2,546
3273	Ready mixed concrete	106,010	27,759	78,251	11,345	71,603	21,984	49,619	5,678
3274	Lime	14,730	2,108	12,622	352	6,362	2,060	4,302	385
3275	Gypsum products	15,201	4,162	11,039	62	12,095	2,464	9,631	38
3281	Cut stone and stone products	6,693	1,378	5,315	983	8,405	2,027	6,378	537
329	Nonmetallic mineral products	98,114	23,723	74,391	6,474	75,652	16,978	58,674	3,378
3291	Abrasive products	15,506	2,562	12,944	862	21,098	6,675	14,423	2,180
3292	Asbestos products	12,381	2,613	9,768	1,289	12,837	2,419	10,418	428
3293	Gaskets and insulations	8,865	2,849	6,016	466	5,699	1,059	4,640	127
3295	Minerals, ground or treated	11,873	2,559	9,314	1,061	9,486	2,553	6,933	330
3296	Mineral wool	37,956	10,225	27,731	223	10,405	1,574	8,831	93
3297	Nonclay refractories	9,346	2,316	7,030	138	14,933	2,407	12,526	146
3299	Nonmetallic products, n.e.c	2,187	599	1,588	2,435	1,194	291	903	74
33	Primary metal industries	1,446,303	386,988	1,059,315	52,077	1,543,695	588,138	955,557	29,897
331	Steel rolling and finishing	974,367	291,528	682,839	23,285	1,028,821	401,535	627,286	11,638
3312	Blast furnaces and steel mills	908,440	277,810	630,630	15,548	959,033	385,495	573,538	9,674
3313	Electrometallurgical products	13,412	2,572	10,840	465	16,969	4,138	12,831	156
3315	Steel wire drawing, etc	14,002	3,795	10,207	1,276	11,980	1,803	10,177	621
3316	Cold finishing of steel shapes	14,925	1,818	13,107	396	25,706	4,629	21,077	76
3317	Steel pipe and tubes	23,588	5,533	18,055	5,600	15,133	5,470	9,663	1,111
332	Iron and steel foundries	108,938	16,127	92,811	6,213	59,236	16,700	42,536	4,848
3321	Gray iron foundries	64,823	10,202	54,621	3,083	32,559	7,374	25,185	2,731
3322	Malleable iron foundries	16,283	1,742	14,541	862	4,438	585	3,853	339
3323	Steel foundries	27,832	4,183	23,649	2,268	22,239	8,741	13,498	1,778
333	Primary nonferrous metal	87,439	34,486	52,953	1,634	179,791	84,042	95,749	1,776
3331	Primary copper	13,134	3,497	9,637	154	19,334	6,253	13,081	(D)
3332	Primary lead	964	115	849	23	725	327	398	(D)
3333	Primary zinc	4,734	1,155	3,579	21	13,445	12,150	1,295	-
3334	Primary aluminum	62,172	29,070	33,102	1,219	142,293	64,063	78,230	1,567
3339	Primary nonferrous metals, n.e.c	6,435	649	5,786	217	3,994	1,249	2,745	201
3341	Secondary nonferrous metals	17,891	5,324	12,567	1,091	5,355	1,432	3,923	281
335	Nonferrous rolling and drawing	191,376	27,213	164,163	9,638	226,240	74,207	152,033	4,819
3351	Copper rolling and drawing	43,462	2,776	40,686	1,482	44,080	11,056	33,024	437
3352	Aluminum rolling and drawing	81,282	10,985	70,297	6,104	131,817	49,728	82,089	1,987
3356	Rolling and drawing, n.e.c	22,154	3,367	18,787	514	14,984	5,034	9,950	745
3357	Nonferrous wire drawing, etc	44,478	10,085	34,393	1,538	35,359	8,389	26,970	1,650
336	Nonferrous foundries	30,571	6,280	24,291	3,432	22,336	5,337	16,999	3,068
3361	Aluminum castings	18,374	3,272	15,102	1,577	12,220	2,390	9,830	1,135
3362	Brass, bronze, copper castings	5,394	1,507	3,887	1,008	5,103	1,947	3,156	1,236
3369	Nonferrous castings, n.e.c	6,803	1,501	5,302	847	5,013	1,000	4,013	697
339	Primary metal industries, n.e.c	35,721	6,030	29,691	6,784	21,916	4,885	17,031	3,467
3391	Iron and steel forgings	17,516	3,268	14,248	4,382	14,268	2,799	11,469	1,549
3392	Nonferrous forgings	4,704	269	4,435	1,168	2,033	572	1,461	390
3399	Primary metal industries, n.e.c	13,501	2,493	11,008	1,234	5,615	1,514	4,101	1,528

See footnotes at end of table.

TABLE 2. Manufacturers' Expenditures for Plant and Equipment, by Industry Groups and Industries: 1963 and 1958—Continued

(Thousands of dollars)

Code	Industry group and industry	1963				1958			
		Expenditures for new plant and equipment[1]			Expenditures for used plant and equipment	Expenditures for new plant and equipment[1]			Expenditures for used plant and equipment
		Total	New structures and additions to plant	New machinery and equipment		Total	New structures and additions to plant	New machinery and equipment	
34	Fabricated metal products	570,077	137,737	432,340	60,907	463,594	146,817	316,777	45,144
3411	Metal cans	66,507	7,997	58,510	2,579	54,346	17,904	36,442	2,245
342	Cutlery, hand tools, hardware	100,636	24,159	76,477	5,813	37,827	5,885	31,942	5,101
3421	Cutlery	12,382	3,085	9,297	1,316	2,370	217	2,153	136
3423	Hand and edge tools	10,955	1,958	8,997	1,460	8,588	2,048	6,540	1,125
3425	Hand saws and saw blades	6,340	3,696	2,644	211	1,225	149	1,076	167
3429	Hardware, n.e.c.	70,959	15,420	55,539	2,826	25,644	3,471	22,173	3,673
343	Plumbing and heating, except electric	30,220	7,640	22,580	2,078	25,907	6,868	19,039	1,931
3431	Metal plumbing fixtures	5,863	531	5,332	80	8,928	2,169	6,759	427
3432	Plumbing fittings, brass goods	6,542	1,700	4,842	532	3,564	808	2,756	302
3433	Heating equipment, except electric	17,815	5,409	12,406	1,466	13,415	3,891	9,524	1,202
344	Structural metal products	126,134	38,510	87,624	14,548	139,038	54,220	84,818	9,518
3441	Fabricated structural steel	28,162	10,347	17,815	3,121	37,698	16,868	20,830	1,728
3442	Metal doors, sash, and trim	21,305	5,029	16,276	1,901	18,055	5,724	12,331	1,774
3443	Boiler shop products	32,910	9,359	23,551	5,946	45,043	18,461	26,582	3,546
3444	Sheet metal work	26,180	7,876	18,304	2,457	22,339	7,985	14,354	1,599
3446	Architectural metal work	6,102	2,084	4,018	394	15,903	5,182	10,721	871
3449	Miscellaneous metal work, n.e.c.	11,475	3,815	7,660	729				
345	Screw machine products, bolts, etc.	50,107	9,251	40,856	10,016	54,929	20,462	34,467	5,083
3451	Screw machine products	18,676	3,891	14,785	5,533	11,222	2,139	9,083	2,911
3452	Bolts, nuts, rivets, and washers	31,431	5,360	26,071	4,483	43,707	18,323	25,384	2,172
3461	Metal stampings	64,248	16,054	48,194	8,918	50,407	15,117	35,290	10,145
347	Metal services, n.e.c.	28,688	6,933	21,755	3,429	20,553	6,188	14,365	2,073
3471	Plating and polishing	20,032	4,814	15,218	2,754	15,877	4,960	10,917	1,366
3479	Metal coating, engraving, etc.	8,656	2,119	6,537	675	4,676	1,228	3,448	707
3481	Fabricated wire products, n.e.c.	24,795	6,036	18,759	2,880	18,105	5,226	12,879	2,568
349	Fabricated metal products, n.e.c.	78,742	21,157	57,585	10,646	62,177	14,947	47,230	6,480
3491	Metal barrels, drums, and pails	6,412	825	5,587	1,202	5,332	1,767	3,565	736
3492	Safes and vaults	1,794	774	1,020	164	683	122	561	181
3493	Steel springs	1,962	292	1,670	200	1,721	183	1,538	283
3494	Valves and pipe fittings	38,951	11,262	27,689	5,659	34,108	8,081	26,027	3,487
3496	Collapsible tubes	1,925	415	1,510	83	1,572	312	1,260	114
3497	Metal foil and leaf	6,410	1,164	5,246	63	3,296	486	2,810	393
3498	Fabricated pipe and fittings	5,099	1,197	3,902	1,282	4,103	1,200	2,903	641
3499	Fabricated metal products, n.e.c.	16,189	5,228	10,961	1,993	11,362	2,796	8,566	645
35	Machinery, except electrical	783,076	170,968	612,118	85,110	699,636	212,666	486,970	66,798
351	Engines and turbines	54,145	7,939	46,206	3,176	71,120	19,110	52,010	13,379
3511	Steam engines and turbines	19,394	1,671	17,723	337	20,492	3,109	17,383	1,529
3519	Internal combustion engines	34,751	6,268	28,483	2,839	50,628	16,001	34,627	11,850
3522	Farm machinery and equipment	64,431	17,006	47,425	3,948	54,655	14,314	40,341	3,301
353	Construction and like equipment	93,175	19,318	73,866	6,947	88,143	23,202	64,941	5,473
3531	Construction machinery	56,227	10,753	45,474	2,676	45,377	10,587	34,790	1,937
3532	Mining machinery and equipment	6,847	1,307	5,549	764	6,507	1,656	4,851	365
3533	Oil field machinery	11,321	2,267	9,054	1,949	18,341	6,303	12,038	2,043
3534	Elevators and moving stairways	3,315	880	2,435	286	2,321	537	1,784	121
3535	Conveyors	6,125	1,586	4,539	828	7,197	2,174	5,023	407
3536	Hoists, cranes, and monorails	2,644	665	1,979	147	5,056	742	4,314	215
3537	Industrial trucks and tractors	6,696	1,860	4,836	297	3,344	1,203	2,141	385
354	Metalworking machinery	136,713	26,411	110,302	22,167	105,716	23,606	82,110	11,782
3541	Metal-cutting machine tools	28,837	5,401	23,436	3,544	18,840	1,921	16,919	1,592
3542	Metal-forming machine tools	10,792	2,099	8,693	2,801	11,723	3,828	7,895	456
3544	Special dies and tools	53,343	10,557	42,786	11,471	43,242	11,596	31,646	7,438
3545	Machine tool accessories	22,784	4,215	18,569	3,354	15,277	2,928	12,349	1,533
3548	Metalworking machinery, n.e.c.	20,957	4,139	16,818	997	16,634	3,333	13,301	763
355	Special industry machinery	71,414	17,778	53,636	7,675	54,025	14,782	39,243	6,732
3551	Food products machinery	11,031	3,004	8,027	894	7,801	1,898	5,903	1,325
3552	Textile machinery	13,870	2,815	11,055	1,310	8,508	2,380	6,128	726
3553	Woodworking machinery	4,720	1,641	3,079	1,028	6,924	1,758	5,166	1,831
3554	Paper industries machinery	10,349	3,142	7,207	1,599	4,847	885	3,962	417
3555	Printing trades machinery	8,911	1,273	7,638	714	8,496	3,245	5,251	1,200
3559	Special industry machines, n.e.c.	22,533	5,903	16,630	2,130	17,449	4,616	12,833	1,233
356	General industrial machinery	124,540	26,177	98,363	12,378	114,806	39,637	75,169	11,478
3561	Pumps and compressors	28,417	5,649	22,768	3,879	24,678	6,843	17,835	3,938
3562	Ball and roller bearings	39,243	5,806	33,437	1,923	34,303	14,060	20,243	2,465
3564	Blowers and fans	6,979	2,730	4,249	651	5,569	1,875	3,694	362

See footnotes at end of table.

TABLE 2. Manufacturers' Expenditures for Plant and Equipment, by Industry Groups and Industries: 1963 and 1958—Continued

(Thousands of dollars)

Code	Industry group and industry	1963				1958			
		Expenditures for new plant and equipment [1]			Expenditures for used plant and equipment	Expenditures for new plant and equipment [1]			Expenditures for used plant and equipment
		Total	New structures and additions to plant	New machinery and equipment		Total	New structures and additions to plant	New machinery and equipment	
35	Machinery, except electrical--Con.								
3565	Industrial patterns	3,794	1,333	2,461	420	3,214	1,255	1,959	625
3566	Power transmission equipment	26,444	4,067	22,377	2,687	26,842	8,267	18,575	2,630
3567	Industrial furnaces and ovens	4,561	1,969	2,592	1,351	2,853	883	1,970	832
3569	General industry machines, n.e.c.	15,102	4,623	10,479	1,467	17,347	6,454	10,893	626
357	Office machines, n.e.c.	119,610	21,555	98,055	9,110	84,597	29,147	55,450	1,513
3571	Computing and related machines	92,628	13,486	79,142	8,700	61,494	21,549	39,945	423
3572	Typewriters	9,576	1,851	7,725	27	9,880	1,923	7,957	178
3576	Scales and balances	1,149	97	1,052	28	1,406	284	1,122	16
3579	Office machines, n.e.c.	16,257	6,121	10,136	355	11,817	5,391	6,426	896
358	Service industry machines	47,319	14,189	33,131	4,051	33,443	10,228	23,215	3,219
3581	Automatic vending machines	3,479	491	2,989	1,008	2,798	989	1,809	874
3582	Commercial laundry equipment	2,487	1,126	1,361	361	2,024	717	1,307	64
3585	Refrigeration machinery	33,471	9,838	23,633	2,098	23,166	7,472	15,694	1,694
3586	Measuring and dispensing pumps	2,604	484	2,120	138	2,238	131	2,107	119
3589	Service industry machines, n.e.c.	5,278	2,250	3,028	446	3,217	919	2,298	468
3599	Miscellaneous machinery	71,729	20,595	51,134	15,658	93,131	38,640	54,491	9,921
36	Electrical machinery	701,947	176,031	525,916	48,304	468,039	156,895	311,144	54,800
361	Electric distribution products	50,548	12,570	37,978	2,288	51,057	17,516	33,541	1,860
3611	Electric measuring instruments	19,207	6,467	12,740	750	19,421	9,385	10,036	455
3612	Transformers	13,161	1,043	12,118	871	13,816	3,977	9,839	374
3613	Switchgear and switchboards	18,180	5,060	13,120	667	17,820	4,154	13,666	1,031
362	Electric industrial apparatus	72,031	14,944	57,087	8,313	59,787	15,813	43,974	18,500
3621	Motors and generators	35,804	3,820	31,984	6,086	28,311	4,800	23,511	4,256
3622	Industrial controls	15,419	6,219	9,200	519	7,611	3,095	4,516	246
3623	Electric welding apparatus	5,364	1,382	3,982	341	4,330	1,422	2,908	166
3624	Carbon and graphite products	11,441	2,367	9,074	419	11,068	4,926	6,142	40
3629	Electric industrial goods, n.e.c.	4,003	1,156	2,847	948	8,467	1,570	6,897	13,792
363	Household appliances	71,252	14,026	57,226	8,024	43,038	7,021	36,017	7,605
3631	Household cooking equipment	8,216	2,738	5,478	94	4,002	824	3,178	883
3632	Household refrigerators	21,765	2,744	19,021	2,168	9,870	2,100	7,770	3,498
3633	Household laundry equipment	9,217	1,485	7,732	180	7,219	692	6,527	361
3634	Electric housewares and fans	17,009	2,512	14,497	1,400	9,985	2,126	7,859	1,529
3635	Household vacuum cleaners	5,739	2,865	2,874	546	2,217	198	2,019	33
3636	Sewing machines	2,568	604	1,964	3,361	5,380	130	5,250	570
3639	Household appliances, n.e.c.	6,738	1,078	5,660	275	4,365	951	3,414	731
364	Lighting and wiring devices	62,104	15,292	46,812	4,143	42,296	9,153	33,143	3,928
3641	Electric lamps	17,040	4,124	12,916	385	8,276	466	7,810	491
3642	Lighting fixtures	23,072	7,751	15,321	1,401	14,415	4,305	10,110	2,542
3643	Current carrying devices	14,119	2,479	11,640	1,497	9,629	2,073	7,556	658
3644	Noncurrent carrying devices	7,873	938	6,935	860	9,976	2,309	7,667	237
365	Radio and TV receiving equipment	39,215	14,756	24,459	849	17,334	7,398	9,936	1,574
3651	Radio and TV receiving sets	30,511	12,056	18,455	520	13,323	6,177	7,146	911
3652	Phonograph records	8,704	2,700	6,004	329	4,011	1,221	2,790	663
366	Communication equipment	193,861	49,495	144,366	12,919	158,957	75,580	83,377	14,249
3661	Telephone; telegraph apparatus	55,127	5,472	49,655	2,188	102,810	50,662	52,148	12,444
3662	Radio, TV communications equipment	138,734	44,023	94,711	10,731	56,147	24,918	31,229	1,805
367	Electronic components	175,943	46,467	129,476	9,399	74,220	19,593	54,627	5,623
3671	Electron tubes, receiving type	5,596	1,025	4,571	1,126	11,514	3,485	8,029	180
3672	Cathode ray picture tubes	16,138	2,254	13,884	272	1,794	629	1,165	141
3673	Electron tubes, transmitting	13,262	3,263	9,999	282	9,021	2,622	6,399	3,488
3674	Semiconductors	52,439	14,023	38,416	3,618	16,172	(NA)	(NA)	(NA)
3679	Electronic components, n.e.c.	88,508	25,902	62,606	4,101	35,719	(NA)	(NA)	(NA)
369	Electrical products, n.e.c.	36,993	8,481	28,512	2,369	21,350	4,821	16,529	1,461
3691	Storage batteries	11,968	3,460	8,508	477	7,330	1,408	5,922	232
3692	Primary batteries, dry and wet	4,132	1,173	2,959	75	2,343	921	1,422	11
3693	X-ray apparatus and tubes	2,132	579	1,553	58	1,371	567	804	54
3694	Engine electrical equipment	15,490	3,009	12,481	1,697	8,942	1,654	7,288	557
3699	Electrical products, n.e.c.	3,271	260	3,011	62	1,364	271	1,093	607
37	Transportation equipment	1,022,004	273,140	748,864	93,077	629,621	184,415	445,206	83,881
371	Motor vehicles and equipment	655,374	144,982	510,392	46,636	342,767	71,814	270,953	50,082
3713	Truck and bus bodies	6,554	3,064	3,490	389	3,627	1,597	2,030	352
3715	Truck trailers	5,265	1,189	4,076	620	5,072	1,354	3,718	288
3717	Motor vehicles and parts	643,555	140,729	502,826	45,627	334,068	68,863	265,205	49,442

See footnotes at end of table.

TABLE 2. Manufacturers' Expenditures for Plant and Equipment, by Industry Groups and Industries: 1963 and 1958—Continued

(Thousands of dollars)

Code	Industry group and industry	1963				1958			
		Expenditures for new plant and equipment [1]			Expenditures for used plant and equipment	Expenditures for new plant and equipment [1]			Expenditures for used plant and equipment
		Total	New structures and additions to plant	New machinery and equipment		Total	New structures and additions to plant	New machinery and equipment	
37	Transportation equipment--Con.								
372	Aircraft and parts	294,163	102,372	191,791	24,733	206,148	76,995	129,153	29,961
3721	Aircraft	114,658	40,662	73,996	9,385	94,167	39,901	54,266	2,369
3722	Aircraft engines and parts	111,529	45,506	66,023	5,122	55,883	20,398	35,485	18,849
3723	Aircraft propellers and parts	6,045	401	5,644	197	5,107	797	4,310	402
3729	Aircraft equipment, n.e.c	61,931	15,803	46,128	10,029	50,991	15,899	35,092	8,341
373	Ships and boat building	37,949	15,814	22,135	19,115	54,073	27,452	26,621	2,266
3731	Ship building and repairing	24,477	10,141	14,336	9,842	38,737	18,762	19,975	1,809
3732	Boat building and repairing	13,472	5,673	7,799	9,273	15,298	8,690	6,608	457
374	Railroad equipment	18,072	3,423	14,649	1,277	13,910	2,585	11,325	721
3741	Locomotives and parts	7,195	694	6,501	351	5,275	800	4,475	223
3742	Railroad and street cars	10,877	2,729	8,148	926	8,635	1,785	6,850	498
3751	Motorcycles, bicycles, and parts	3,152	540	2,612	285	2,549	374	2,175	75
379	Transportation equipment, n.e.c	13,294	6,009	7,285	1,031	10,156	5,195	4,961	776
3791	Trailer coaches	9,584	4,820	4,764	459	7,726	4,121	3,605	455
3799	Transportation equipment, n.e.c	3,710	1,189	2,521	572	2,430	1,074	1,356	321
38	Instruments and related products	191,865	52,324	139,541	7,522	114,608	34,508	80,100	9,255
3811	Scientific instruments	16,244	6,219	10,025	2,581	16,580	5,409	11,171	3,358
382	Mechanical measuring devices	41,437	13,362	28,075	1,588	24,204	7,541	16,663	3,895
3821	Mechanical measuring devices	30,914	11,914	19,000	926	18,215	6,861	11,354	3,830
3822	Automatic temperature controls	10,523	1,448	9,075	662	5,989	680	5,309	65
3831	Optical instruments and lenses	6,163	2,140	4,023	698	3,438	2,035	1,403	54
384	Medical instruments and supplies	31,080	10,260	20,820	799	13,439	3,150	10,289	618
3841	Surgical and medical instruments	10,514	3,253	7,261	199	2,812	696	2,116	16
3842	Surgical appliances and supplies	17,831	6,375	11,456	533	9,110	2,132	6,978	349
3843	Dental equipment and supplies	2,735	632	2,103	67	1,517	322	1,195	253
3851	Ophthalmic goods	9,085	851	8,234	267	5,367	1,016	4,351	170
3861	Photographic equipment	78,626	17,859	60,767	964	46,770	14,532	32,238	1,073
387	Watches, clocks, and watchcases	9,230	1,633	7,597	625	4,810	825	3,985	87
3871	Watches and clocks	8,730	1,621	7,109	619	4,607	819	3,788	74
3872	Watchcases	500	12	488	6	203	6	197	13
39	Miscellaneous manufacturing	131,033	34,101	96,937	9,010	110,585	36,636	73,949	6,163
391	Jewelry and silverware	8,115	1,994	6,121	579	6,829	2,213	4,616	466
3911	Jewelry, precious metal	3,676	1,112	2,564	246	3,461	1,705	1,756	223
3912	Jewelers' findings and materials	1,308	516	792	56	637	112	525	(D)
3913	Lapidary work	393	39	354	8	253	33	220	(D)
3914	Silverware and plated ware	2,738	327	2,411	269	2,478	363	2,115	169
3931	Musical instruments and parts	5,779	2,551	3,228	373	4,561	2,160	2,401	94
394	Toys and sporting goods	51,151	13,501	37,655	3,893	37,919	12,037	25,882	847
3941	Games and toys	27,728	6,391	21,337	2,713	16,513	4,444	12,069	32
3942	Dolls	6,276	1,823	4,453	233	5,469	188	5,281	178
3943	Children's vehicles	1,858	95	1,763	112	831	196	635	310
3949	Sporting and athletic goods	15,289	5,192	10,102	835	15,106	7,209	7,897	327
395	Pens, pencils, and office supplies	10,143	1,123	9,020	463	9,892	3,267	6,625	1,814
3951	Pens and mechanical pencils	4,068	205	3,363	209	3,829	730	3,099	451
3952	Lead pencils and art goods	1,594	281	1,313	21	2,049	736	1,313	(D)
3953	Marking devices	2,204	380	1,824	94	1,360	495	865	(D)
3955	Carbon paper and inked ribbons	2,277	257	2,020	139	2,654	1,306	1,348	1,195
396	Costume jewelry and notions	13,029	2,419	10,610	940	12,364	2,890	9,474	678
3961	Costume jewelry	3,825	971	2,854	249	5,788	1,806	3,982	432
3962	Artificial flowers	736	223	513	43	886	337	549	107
3963	Buttons	1,040	262	778	90	1,414	257	1,157	39
3964	Needles, pins, and fasteners	7,428	963	6,465	558	4,276	490	3,786	100
398 399	Miscellaneous manufactures	42,816	12,513	30,303	2,762	39,020	14,069	24,951	2,267

See footnotes at end of table.

TABLE 2. Manufacturers' Expenditures for Plant and Equipment, by Industry Groups and Industries: 1963 and 1958—Continued

(Thousands of dollars)

Code	Industry group and industry	1963				1958			
		Expenditures for new plant and equipment[1]			Expenditures for used plant and equipment	Expenditures for new plant and equipment[1]			Expenditures for used plant and equipment
		Total	New structures and additions to plant	New machinery and equipment		Total	New structures and additions to plant	New machinery and equipment	
39	Miscellaneous manufacturing--Con.								
3981	Brooms and brushes	4,394	970	3,424	379	3,981	1,385	2,596	193
3982	Hard surface floor coverings	4,441	343	4,098	24	5,443	865	4,578	50
3983	Matches	1,876	382	1,494	530	942	166	776	31
3984	Candles	773	117	656	19	482	113	369	(D)
3987	Lamp shades	530	49	481	8	1,237	202	1,035	(D)
3988	Morticians' goods	5,455	1,965	3,490	174	5,754	1,998	3,756	126
3992	Furs, dressed and dyed	227	42	185	45	245	97	148	29
3993	Signs and advertising displays	15,042	5,227	9,815	1,046	13,505	6,232	7,273	827
3995	Umbrellas, parasols, and canes	190	31	159	7	114	22	92	454
3999	Miscellaneous products, n.e.c.	9,888	3,387	6,501	530	7,317	2,989	4,328	540
19	Ordnance and accessories[2]	88,218	25,881	62,337	8,771	74,986	29,369	45,617	5,755
192	Missiles and ammunition, n.e.c.	56,468	16,435	40,033	2,052	52,324	21,681	30,643	1,689
1925	Complete guided missiles	48,849	13,458	35,391	1,712	46,137	17,350	28,787	1,022
1929	Ammunition, n.e.c.	7,619	2,977	4,642	340	6,187	4,331	1,856	667
1931	Tanks and tank components	5,249	674	4,575	316	1,524	713	811	213
1941	Sighting and fire control equipment	3,631	1,678	1,953	-	4,088	1,390	2,698	955
1951	Small arms, 30 mm, and under	5,123	1,135	3,988	279	2,128	386	1,742	408
1961	Small arms ammunition	5,478	1,586	3,892	5,821	4,166	2,141	2,025	492
1911	Guns, howitzers, and mortors	12,269	4,373	7,896	303	10,756	3,058	7,698	1,998
1999	Ordnance and accessories, n.e.c.								

Note: See Introduction for an explanation of terms.
Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.
[1]Includes data for plants under construction and not yet in operation.
[2]Includes privately owned and/or operated establishments. Government owned and operated establishments are excluded.

TABLE 3. Manufacturers' Expenditures for Plant and Equipment by Divisions and States: 1963 and 1958

(Thousands of dollars)

Division and State	1963				1958			
	Establishments in operation and under construction			Expenditures for used plant and equipment	Establishments in operation and under construction			Expenditures for used plant and equipment
	Total new expenditures	New structures and additions to plant	New machinery and equipment		Total new expenditures	New structures and additions to plant	New machinery and equipment	
United States, total	11,364,835	2,963,491	8,401,383	699,497	9,551,746	3,237,525	6,314,221	521,605
New England	639,328	134,163	505,165	67,210	534,141	154,452	379,689	35,934
Maine	62,489	11,522	50,967	3,102	44,329	13,895	30,434	2,258
New Hampshire	30,288	5,238	25,050	4,810	24,365	4,904	19,461	1,885
Vermont	15,678	3,263	12,415	748	11,598	3,334	8,264	776
Massachusetts	272,983	56,401	216,582	21,119	228,513	65,221	163,292	13,797
Rhode Island	43,107	8,423	34,684	22,499	29,895	6,576	23,319	4,013
Connecticut	214,783	49,316	165,467	14,932	195,441	60,522	134,919	13,205
Middle Atlantic	2,086,242	493,604	1,592,638	132,265	2,058,255	726,298	1,331,957	98,165
New York	783,556	175,430	608,126	52,940	792,201	289,736	502,465	44,106
New Jersey	525,006	120,117	404,889	31,059	449,734	156,235	293,499	23,746
Pennsylvania	777,680	198,057	579,623	48,266	816,320	280,327	535,993	30,313
East North Central	3,221,068	786,828	2,434,240	199,030	2,710,816	915,050	1,795,766	197,661
Ohio	847,801	174,971	672,830	54,365	795,773	237,951	557,822	57,678
Indiana	555,247	180,108	375,139	22,499	515,295	241,669	273,626	30,734
Illinois	775,542	187,120	588,422	48,786	730,728	264,941	465,787	43,240
Michigan	761,813	171,301	590,512	57,090	465,273	110,991	354,282	55,352
Wisconsin	280,665	73,328	207,337	16,290	203,747	59,498	144,249	10,657
West North Central	664,882	173,323	491,559	45,547	560,811	212,091	348,720	28,296
Minnesota	159,061	43,906	115,155	13,496	108,521	33,799	74,722	5,412
Iowa	126,952	37,532	89,420	5,687	103,193	41,409	61,784	5,027
Missouri	211,060	52,824	158,236	18,692	185,879	69,216	116,663	9,086
North Dakota	8,064	4,676	3,388	290	9,142	6,476	2,666	151
South Dakota	7,339	2,064	5,275	367	5,211	1,815	3,396	247
Nebraska	46,084	10,176	35,908	2,815	49,906	20,278	29,628	5,762
Kansas	106,322	22,145	84,177	4,200	98,959	39,098	59,861	2,611
South Atlantic	1,569,360	365,584	1,203,776	97,104	1,073,488	302,889	770,599	52,442
Delaware	88,806	27,996	60,810	862	27,926	8,488	19,438	851
Maryland	176,307	43,610	132,697	16,734	128,085	48,060	80,025	4,942
District of Columbia	12,987	5,565	7,422	253	14,732	5,680	9,052	187
Virginia	231,786	55,117	176,669	16,565	146,463	32,057	114,406	4,348
West Virginia	173,002	26,270	146,732	2,488	167,199	37,385	129,814	3,354
North Carolina	314,428	71,443	242,985	18,799	191,292	57,606	133,686	14,527
South Carolina	179,264	36,662	142,602	19,696	75,617	15,640	59,977	6,725
Georgia	202,163	53,649	148,514	10,761	169,871	50,701	119,170	7,105
Florida	190,617	45,272	145,345	10,946	152,303	47,272	105,031	10,403
East South Central	747,054	186,274	560,780	23,859	555,046	141,336	413,710	13,670
Kentucky	223,561	31,007	192,554	5,045	112,525	30,999	81,526	3,116
Tennessee	244,897	51,860	193,037	9,157	209,712	47,731	161,981	6,015
Alabama	147,395	21,072	126,323	6,023	165,144	46,908	118,236	3,321
Mississippi	131,201	82,335	48,866	3,634	67,665	15,698	51,967	1,218
West South Central	915,046	294,209	620,837	41,844	894,609	357,603	537,006	28,916
Arkansas	73,383	11,796	61,587	6,362	48,227	16,486	31,741	3,078
Louisiana	210,837	47,801	163,036	6,080	173,383	64,880	108,503	6,118
Oklahoma	63,562	16,497	47,065	4,150	61,927	29,026	32,901	2,572
Texas	567,264	218,115	349,149	25,252	611,072	247,211	363,861	17,148
Mountain	247,009	90,543	156,466	16,440	185,501	74,488	111,013	8,493
Montana	38,587	19,775	18,812	2,220	19,898	10,286	9,612	612
Idaho	28,366	9,223	19,143	1,599	19,196	5,110	14,086	945
Wyoming	13,971	10,308	3,663	257	6,985	5,361	1,624	183
Colorado	68,026	20,684	47,342	2,381	50,713	22,506	28,207	2,572
New Mexico	10,357	4,294	6,063	748	24,545	7,507	17,038	1,764
Arizona	49,451	19,106	30,345	1,828	27,698	7,652	20,046	1,427
Utah	29,601	5,678	23,923	7,025	31,311	14,255	17,056	756
Nevada	8,650	1,475	7,175	382	5,155	1,811	3,344	234
Pacific	1,290,399	369,295	921,104	91,888	1,057,392	398,035	659,357	58,241
Washington	143,415	39,579	103,836	16,035	160,445	78,483	81,962	6,823
Oregon	132,014	28,571	103,443	11,522	123,339	36,161	87,178	9,034
California	985,114	289,881	695,233	62,111	753,163	278,302	474,861	41,488
Alaska	14,481	8,818	5,663	689	3,264	1,088	2,176	404
Hawaii	15,375	2,446	12,929	1,531	17,181	4,001	13,180	492

Note: The totals at the U.S. total level were derived from separate tabulations based on industry rather than State detail. The sum of the State detail does not add to the U.S. totals because of (1) independent rounding and (2) independent review and correction of the separate industry and State tabulations.

TABLE 4. Manufacturers' Expenditures for New Plant and Equipment, by Major Industry Groups, Divisions, and States: 1963

(In thousands of dollars)

Code	Major industry group	Establishments in operation and under construction								
		Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment
		New England			Maine			New Hampshire		
	All industries, total	639,328	134,163	505,165	62,489	11,522	50,967	30,288	5,238	25,050
20	Food and kindred products	43,160	13,112	30,048	5,693	1,130	4,563	1,564	289	1,275
21	Tobacco manufactures	97	12	85	-	-	-	-	-	-
22	Textile mill products	31,541	4,657	26,884	3,529	294	3,235	2,127	114	2,013
23	Apparel and related products	7,282	1,745	5,537	778	595	183	139	38	101
24	Lumber and wood products	15,195	4,254	10,941	7,415	1,913	5,502	2,907	733	2,174
25	Furniture and fixtures	4,608	1,795	2,813	328	200	128	488	243	245
26	Paper and allied products	68,893	10,038	58,855	32,998	4,649	28,349	5,901	1,741	4,160
27	Printing and publishing	33,935	8,297	25,638	748	83	665	1,436	144	1,292
28	Chemicals and allied products	40,920	11,386	29,534	590	106	484	490	92	398
29	Petroleum and coal products	2,357	588	1,769	186	27	159	24	11	13
30	Rubber and plastics products, n.e.c.	35,934	5,871	30,063	4,161	1,030	3,131	1,623	63	1,560
31	Leather and leather products	8,354	956	7,398	1,931	323	1,608	1,933	169	1,764
32	Stone, clay and glass products	19,735	5,615	14,120	890	305	585	1,427	316	1,111
33	Primary metal industries	36,020	4,853	31,167	228	63	165	502	28	474
34	Fabricated metal products	53,023	14,770	38,253	730	191	539	741	312	429
35	Machinery, except electrical	72,549	11,752	60,797	477	78	399	3,927	576	3,351
36	Electrical machinery	60,907	7,782	53,125	508	210	298	4,020	331	3,689
37	Transportation equipment	48,589	12,870	35,719	1,013	268	745	35	13	22
38	Instruments and related products	32,482	8,623	23,859	2	-	2	247	4	243
39	Miscellaneous manufacturing	17,456	3,391	14,065	251	57	194	757	21	736
19	Ordnance and accessories	6,291	1,796	4,495	33	-	33	-	-	-
		Vermont			Massachusetts			Rhode Island		
	All industries, total	15,678	3,263	12,415	272,983	56,401	216,582	43,107	8,423	34,684
20	Food and kindred products	1,642	272	1,370	22,912	7,488	15,424	3,601	961	2,640
21	Tobacco manufactures	-	-	-	(D)	(D)	(D)	-	-	-
22	Textile mill products	33	-	33	13,830	2,177	11,653	6,794	1,188	5,606
23	Apparel and related products	244	7	237	4,579	956	3,623	209	25	184
24	Lumber and wood products	1,785	637	1,148	2,259	657	1,602	132	70	62
25	Furniture and fixtures	527	261	266	2,321	784	1,537	260	155	105
26	Paper and allied products	1,338	33	1,305	22,364	2,791	19,573	919	110	809
27	Printing and publishing	1,176	301	875	18,352	5,391	12,961	2,597	314	2,283
28	Chemicals and allied products	237	97	140	22,241	6,889	15,352	4,691	976	3,715
29	Petroleum and coal products	(D)	-	(D)	1,378	419	959	(D)	(D)	(D)
30	Rubber and plastics products, n.e.c.	1,029	92	937	14,985	1,889	13,096	3,537	973	2,564
31	Leather and leather products	88	10	78	4,080	424	3,656	129	9	120
32	Stone, clay and glass products	1,608	322	1,286	8,479	1,928	6,551	1,534	464	1,070
33	Primary metal industries	279	23	256	9,945	1,294	8,651	5,282	934	4,348
34	Fabricated metal products	431	175	256	20,095	5,010	15,085	2,701	338	2,363
35	Machinery, except electrical	2,821	284	2,537	31,713	5,364	26,349	3,561	514	3,047
36	Electrical machinery	928	114	814	36,684	3,560	33,124	1,186	39	1,147
37	Transportation equipment	(D)	(D)	(D)	6,792	1,491	5,301	(D)	(D)	(D)
38	Instruments and related products	(D)	(D)	(D)	22,251	5,929	16,322	1,171	38	1,133
39	Miscellaneous manufacturing	842	541	301	6,832	1,685	5,147	3,519	674	2,845
19	Ordnance and accessories	-	-	-	(D)	(D)	(D)	(D)	-	(D)
		Connecticut			Middle Atlantic Division			New York		
	All industries, total	214,783	49,316	165,467	2,086,242	493,604	1,592,638	783,556	175,430	608,126
20	Food and kindred products	7,748	2,972	4,776	205,728	47,938	157,790	82,794	17,349	65,445
21	Tobacco manufactures	94	11	83	1,682	169	1,513	68	8	60
22	Textile mill products	5,228	884	4,344	46,196	8,136	38,060	16,074	2,320	13,754
23	Apparel and related products	1,333	124	1,209	54,121	13,536	40,585	28,733	6,122	22,611
24	Lumber and wood products	697	244	453	17,552	5,928	11,624	8,425	2,458	5,967
25	Furniture and fixtures	684	152	532	16,197	4,932	11,265	7,434	2,096	5,338
26	Paper and allied products	5,373	714	4,659	111,860	15,399	96,461	48,377	7,181	41,196
27	Printing and publishing	9,626	2,064	7,562	117,190	23,968	93,222	75,288	14,956	60,332
28	Chemicals and allied products	12,671	3,226	9,445	268,760	74,367	194,393	62,893	19,107	43,786
29	Petroleum and coal products	672	68	604	40,673	28,964	11,709	3,418	1,542	1,876
30	Rubber and plastics products, n.e.c.	10,599	1,824	8,775	57,419	9,353	48,066	17,051	1,821	15,230
31	Leather and leather products	193	21	172	8,721	1,125	7,596	4,637	490	4,147
32	Stone, clay and glass products	5,797	2,280	3,517	107,287	22,145	85,142	31,642	3,050	28,592
33	Primary metal industries	19,784	2,511	17,273	309,852	74,887	234,965	50,452	11,419	39,033
34	Fabricated metal products	28,325	8,744	19,581	112,945	26,409	86,536	35,702	7,844	27,858
35	Machinery, except electrical	30,050	4,936	25,114	170,965	32,644	138,321	75,270	14,234	61,036
36	Electrical machinery	17,581	3,528	14,053	179,250	37,281	141,969	75,774	19,079	56,695
37	Transportation equipment	39,006	10,441	28,565	122,490	37,899	84,591	65,838	22,939	42,899
38	Instruments and related products	8,698	2,637	6,061	89,572	21,389	68,183	65,405	15,871	49,534
39	Miscellaneous manufacturing	5,255	413	4,842	49,347	10,268	39,079	26,112	5,312	20,800
19	Ordnance and accessories	5,369	1,522	3,847	2,681	363	2,318	2,169	232	1,937

See footnotes at end of table.

TABLE 4. Manufacturers' Expenditures for New Plant and Equipment, by Major Industry Groups, Divisions, and States: 1963—Continued

(In thousands of dollars)

Code	Major industry group	Establishments in operation and under construction								
		Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment
		New Jersey			Pennsylvania			East North Central Division		
	All industries, total	525,006	120,117	404,889	777,680	198,057	579,623	3,221,068	786,828	2,434,240
20	Food and kindred products	55,473	13,642	41,831	67,461	16,947	50,514	281,012	74,957	206,055
21	Tobacco manufactures	(D)	(D)	(D)	1,367	146	1,221	(D)	(D)	(D)
22	Textile mill products	11,297	1,997	9,300	18,825	3,819	15,006	11,616	2,749	8,867
23	Apparel and related products	8,456	1,704	6,752	16,932	5,710	11,222	14,886	5,062	9,824
24	Lumber and wood products	1,748	466	1,282	7,379	3,004	4,375	27,857	8,605	19,252
25	Furniture and fixtures	3,086	1,407	1,679	5,677	1,429	4,248	28,551	10,497	18,054
26	Paper and allied products	29,206	3,674	25,532	34,277	4,544	29,733	154,584	31,663	122,921
27	Printing and publishing	15,937	2,903	13,034	25,965	6,109	19,856	133,374	29,399	103,975
28	Chemicals and allied products	144,875	34,598	110,277	60,992	20,662	40,330	237,941	63,437	174,504
29	Petroleum and coal products	11,352	7,626	3,726	25,903	19,796	6,107	32,940	16,071	16,869
30	Rubber and plastics products, n.e.c.	24,278	5,256	19,022	16,090	2,276	13,814	147,622	25,496	122,126
31	Leather and leather products	1,164	240	924	2,920	395	2,525	6,036	1,443	4,593
32	Stone, clay and glass products	32,720	9,937	22,783	42,925	9,158	33,767	126,848	25,524	101,324
33	Primary metal industries	27,585	4,151	23,434	231,815	59,317	172,498	700,108	203,178	496,930
34	Fabricated metal products	32,111	5,741	26,370	45,132	12,824	32,308	213,945	45,080	168,865
35	Machinery, except electrical	28,151	6,013	22,138	67,544	12,397	55,147	328,435	69,528	258,907
36	Electrical machinery	45,029	7,985	37,044	58,447	10,217	48,230	209,621	47,760	161,861
37	Transportation equipment	25,567	7,177	18,390	31,085	7,783	23,302	490,439	98,754	391,685
38	Instruments and related products	14,476	2,669	11,807	9,691	2,849	6,842	37,774	14,378	23,396
39	Miscellaneous manufacturing	12,238	2,911	9,327	10,997	2,045	8,952	28,380	8,306	20,074
19	Ordnance and accessories	(D)	(D)	(D)	502	126	376	(D)	(D)	(D)
		Ohio			Indiana			Illinois		
	All industries, total	847,801	174,971	672,830	555,247	180,108	375,139	775,542	187,120	588,422
20	Food and kindred products	50,466	13,371	37,095	30,036	7,161	22,875	108,857	28,874	79,983
21	Tobacco manufactures	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products	5,705	1,823	3,882	70	11	59	3,348	647	2,701
23	Apparel and related products	1,934	666	1,268	1,314	424	890	3,312	818	2,494
24	Lumber and wood products	4,798	1,832	2,966	4,864	1,589	3,275	3,840	1,260	2,580
25	Furniture and fixtures	6,357	1,807	4,550	6,443	1,963	4,480	10,352	5,552	4,800
26	Paper and allied products	29,474	4,874	24,600	7,728	1,538	6,190	30,306	9,733	20,573
27	Printing and publishing	40,852	9,906	30,946	13,503	3,763	9,740	53,837	9,353	44,484
28	Chemicals and allied products	66,210	11,187	55,023	44,166	26,182	17,984	72,921	17,580	55,341
29	Petroleum and coal products	7,865	3,818	4,047	7,774	1,666	6,108	13,989	9,453	4,536
30	Rubber and plastics products, n.e.c.	65,205	10,129	55,076	13,073	1,920	11,153	51,354	9,568	41,786
31	Leather and leather products	1,555	518	1,037	276	45	231	1,271	150	1,121
32	Stone, clay and glass products	48,185	8,617	39,568	18,938	4,328	14,610	30,177	5,730	24,447
33	Primary metal industries	209,570	42,578	166,992	249,402	95,372	154,030	94,817	22,697	72,120
34	Fabricated metal products	61,901	11,734	50,167	19,657	4,395	15,262	63,635	12,466	51,169
35	Machinery, except electrical	84,233	17,388	66,845	33,988	9,129	24,859	103,119	17,983	85,136
36	Electrical machinery	51,757	9,083	42,674	45,476	7,162	38,314	73,887	19,295	54,592
37	Transportation equipment	93,698	15,197	78,501	51,321	11,385	39,936	24,899	6,648	18,251
38	Instruments and related products	6,214	4,307	1,907	3,493	660	2,833	17,046	5,169	11,877
39	Miscellaneous manufacturing	6,743	1,947	4,796	3,212	1,281	1,931	11,387	3,535	7,852
19	Ordnance and accessories	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
		Michigan			Wisconsin			West North Central Division		
	All industries, total	761,813	171,301	590,512	280,665	73,328	207,337	664,882	173,323	491,559
20	Food and kindred products	42,075	11,587	30,488	49,578	13,964	35,614	145,441	39,069	106,372
21	Tobacco products	(D)	-	(D)	(D)	-	(D)	(D)	(D)	(D)
22	Textile mill products	1,368	215	1,153	1,125	53	1,072	1,297	288	1,009
23	Apparel and related products	7,379	2,851	4,528	947	303	644	4,866	919	3,947
24	Lumber and wood products	8,315	1,800	6,515	6,040	2,124	3,916	9,022	3,290	5,732
25	Furniture and fixtures	3,997	918	3,079	1,402	257	1,145	3,311	923	2,388
26	Paper and allied products	27,922	2,725	25,197	59,154	12,793	46,361	34,230	6,991	27,239
27	Printing and publishing	16,047	4,344	11,703	9,135	2,033	7,102	38,372	9,677	28,695
28	Chemicals and allied products	47,924	6,983	40,941	6,720	1,505	5,215	97,338	19,340	77,998
29	Petroleum and coal products	2,718	839	1,879	594	295	299	34,178	15,264	18,914
30	Rubber and plastics products, n.e.c.	15,107	3,483	11,624	2,883	396	2,487	13,234	2,102	11,132
31	Leather and leather products	(D)	(D)	(D)	(D)	(D)	(D)	4,043	1,524	2,519
32	Stone, clay and glass products	22,898	5,354	17,544	6,650	1,495	5,155	38,410	9,630	28,780
33	Primary metal industries	129,952	38,997	90,955	16,367	3,534	12,833	20,679	4,660	16,019
34	Fabricated metal products	46,961	9,669	37,292	21,791	6,816	14,975	29,351	7,597	21,754
35	Machinery, except electrical	66,316	14,890	51,426	40,779	10,138	30,641	70,172	20,309	49,863
36	Electrical machinery	13,418	3,259	10,159	25,083	8,961	16,122	28,633	4,538	24,095
37	Transportation equipment	296,007	58,824	237,183	24,514	6,700	17,814	68,338	22,617	45,721
38	Instruments and related products	8,068	3,128	4,940	2,953	1,114	1,839	6,245	857	5,388
39	Miscellaneous manufacturing	4,057	990	3,067	2,981	553	2,428	6,777	2,220	4,557
19	Ordnance and accessories	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

TABLE 4. Manufacturers' Expenditures for New Plant and Equipment, by Major Industry Groups, Divisions, and States: 1963—Continued

(In thousands of dollars)

Code	Major industry group	Establishments in operation and under construction								
		Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment
		Minnesota			Iowa			Missouri		
	All industries, total	159,061	43,906	115,155	126,952	37,532	89,420	211,060	52,824	158,236
20	Food and kindred products	30,438	7,096	23,342	39,160	11,867	27,293	37,101	7,325	29,776
21	Tobacco products	-	-	-	-	-	-	(D)	(D)	(D)
22	Textile mill products	573	228	345	(D)	(D)	(D)	704	56	648
23	Apparel and related products	1,146	321	825	596	236	360	2,662	229	2,433
24	Lumber and wood products	3,818	1,427	2,391	1,166	302	864	2,769	1,108	1,661
25	Furniture and fixtures	735	208	527	804	244	560	1,021	250	771
26	Paper and allied products	22,824	4,775	18,049	2,203	251	1,952	6,381	1,734	4,647
27	Printing and publishing	9,330	1,203	8,127	4,772	1,506	3,266	14,362	4,571	9,791
28	Chemicals and allied products	6,773	1,953	4,820	16,145	4,789	11,356	22,702	4,435	18,267
29	Petroleum and coal products	16,031	10,247	5,784	(D)	(D)	(D)	1,112	699	413
30	Rubber and plastics products, n.e.c.	2,590	497	2,093	(D)	(D)	(D)	2,657	459	2,198
31	Leather and leather products	(D)	(D)	(D)	31	-	31	3,753	1,519	2,234
32	Stone, clay and glass products	7,166	1,625	5,541	8,697	3,301	5,396	9,778	1,612	8,166
33	Primary metal industries	1,864	614	1,250	11,663	3,052	8,611	4,678	654	4,024
34	Fabricated metal products	6,811	2,387	4,424	3,844	898	2,946	13,938	2,942	10,996
35	Machinery, except electrical	31,416	6,938	24,478	21,421	6,974	14,447	11,939	4,833	7,106
36	Electrical machinery	7,632	1,415	6,217	6,320	1,424	4,896	10,809	1,175	9,634
37	Transportation equipment	3,148	1,105	2,043	1,180	273	907	54,749	18,748	36,001
38	Instruments and related products	2,477	385	2,092	1,358	284	1,074	1,116	105	1,011
39	Miscellaneous manufacturing	2,955	1,161	1,794	1,364	187	1,177	1,301	282	1,019
19	Ordnance and accessories	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
		North Dakota			South Dakota			Nebraska		
	All industries, total	8,064	4,676	3,388	7,339	2,064	5,275	46,084	10,176	35,908
20	Food and kindred products	5,567	4,031	1,536	4,353	1,206	3,147	16,428	4,255	12,173
21	Tobacco products	-	-	-	-	-	-	-	-	-
22	Textile mill products	-	-	-	-	-	-	-	-	-
23	Apparel and related products	-	-	-	(D)	(D)	(D)	54	3	51
24	Lumber and wood products	84	43	41	587	189	398	266	66	200
25	Furniture and fixtures	(D)	(D)	(D)	(D)	(D)	(D)	547	178	369
26	Paper and allied products	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	(D)
27	Printing and publishing	674	139	535	696	165	531	3,101	789	2,312
28	Chemicals and allied products	(D)	-	(D)	(D)	(D)	(D)	9,116	579	8,537
29	Petroleum and coal products	(D)	(D)	(D)	(D)	-	(D)	152	114	38
30	Rubber and plastics products, n.e.c.	-	-	-	(D)	(D)	(D)	1,245	168	1,077
31	Leather and leather products	-	-	-	-	-	-	(D)	(D)	(D)
32	Stone, clay and glass products	446	124	322	888	238	650	3,478	1,581	1,897
33	Primary metal industries	(D)	-	(D)	-	-	-	1,932	239	1,693
34	Fabricated metal products	(D)	(D)	(D)	(D)	(D)	(D)	2,337	806	1,531
35	Machinery, except electrical	294	133	161	246	107	139	1,415	336	1,079
36	Electrical machinery	-	-	-	(D)	(D)	(D)	2,635	356	2,279
37	Transportation equipment	8	(D)	(D)	145	54	91	711	192	519
38	Instruments and related products	(D)	(D)	(D)	(D)	-	(D)	1,257	75	1,182
39	Miscellaneous manufacturing	157	139	18	33	15	18	685	335	350
19	Ordnance and accessories	-	-	-	-	-	-	28	5	23
		Kansas			South Atlantic Division			Delaware		
	All industries, total	106,322	22,145	84,177	1,569,360	365,584	1,203,776	88,806	27,996	60,810
20	Food and kindred products	12,394	3,289	9,105	145,829	46,278	99,551	22,843	(D)	(D)
21	Tobacco products	-	-	-	40,584	8,904	31,680	-	-	-
22	Textile mill products	(D)	(D)	(D)	250,752	45,122	205,630	500	(D)	(D)
23	Apparel and related products	401	128	273	24,530	7,576	16,954	434	65	369
24	Lumber and wood products	332	155	177	59,572	19,491	40,081	356	92	264
25	Furniture and fixtures	183	36	147	32,566	14,997	17,569	13	(D)	(D)
26	Paper and allied products	2,126	130	1,996	154,807	35,738	119,069	(D)	(D)	(D)
27	Printing and publishing	5,437	1,304	4,133	52,312	13,473	38,839	910	201	709
28	Chemicals and allied products	42,523	7,572	34,951	358,915	57,127	301,788	(D)	(D)	(D)
29	Petroleum and coal products	15,943	4,165	11,778	7,220	4,120	3,100	(D)	(D)	(D)
30	Rubber and plastics products, n.e.c.	(D)	(D)	(D)	25,567	4,694	20,873	(D)	(D)	(D)
31	Leather and leather products	17	-	17	1,726	281	1,445	350	28	322
32	Stone, clay and glass products	7,957	1,149	6,808	105,649	27,828	77,821	965	127	838
33	Primary metal industries	(D)	(D)	(D)	115,679	23,609	92,070	1,259	262	997
34	Fabricated metal products	2,229	478	1,751	44,758	11,171	33,587	599	88	511
35	Machinery, except electrical	3,441	988	2,453	28,746	9,726	19,020	1,128	195	933
36	Electrical machinery	(D)	(D)	(D)	48,636	13,794	34,842	1,068	711	357
37	Transportation equipment	8,397	2,242	6,155	49,711	15,521	34,190	(D)	(D)	(D)
38	Instruments and related products	34	7	27	7,742	1,353	6,389	(D)	(D)	(D)
39	Miscellaneous manufacturing	282	101	181	7,366	2,111	5,255	23	(D)	(D)
19	Ordnance and accessories	(D)	-	(D)	6,693	2,670	4,023	-	-	-

See footnotes at end of table.

TABLE 4. Manufacturers' Expenditures for New Plant and Equipment, by Major Industry Groups, Divisions, and States: 1963—Continued

(In thousands of dollars)

Code	Major industry group	Establishments in operation and under construction								
		Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment
		Maryland			District of Columbia			Virginia		
	All industries, total	176,307	43,610	132,697	12,987	5,565	7,422	231,786	55,117	176,669
20	Food and kindred products	15,458	3,496	11,962	1,886	399	1,487	17,404	4,158	13,246
21	Tobacco products	-	-	-	-	-	-	14,308	4,967	9,341
22	Textile mill products	590	49	541	-	-	-	16,285	3,196	13,089
23	Apparel and related products	2,360	551	1,809	33	7	26	2,893	1,245	1,648
24	Lumber and wood products	1,991	509	1,482	28	8	20	11,829	3,865	7,964
25	Furniture and fixtures	2,645	2,049	596	70	5	65	7,618	3,352	4,266
26	Paper and allied products	8,551	1,360	7,191	(D)	(D)	(D)	27,694	8,109	19,585
27	Printing and publishing	10,024	1,981	8,043	8,648	4,789	3,859	5,635	1,849	3,786
28	Chemicals and allied products	17,191	3,981	13,210	(D)	(D)	(D)	83,116	12,510	70,606
29	Petroleum and coal products	1,897	1,308	589	-	-	-	649	123	526
30	Rubber and plastics products, n.e.c.	12,667	2,193	10,474	(D)	(D)	(D)	3,029	546	2,483
31	Leather and leather products	262	6	256	-	-	-	286	14	272
32	Stone, clay and glass products	21,016	3,836	17,180	1,310	85	1,225	10,243	1,954	8,289
33	Primary metal industries	46,008	11,651	34,357	-	-	-	4,497	394	4,103
34	Fabricated metal products	8,425	1,907	6,518	93	19	74	7,687	2,525	5,162
35	Machinery, except electrical	6,147	2,190	3,957	141	43	98	4,009	1,605	2,404
36	Electrical machinery	8,317	3,022	5,295	73	16	57	5,953	1,003	4,950
37	Transportation equipment	10,537	2,432	8,105	(D)	-	(D)	6,766	3,305	3,461
38	Instruments and related products	483	97	386	12	(D)	(D)	1,011	281	730
39	Miscellaneous manufacturing	1,352	813	539	82	20	62	854	109	745
19	Ordnance and accessories	385	179	206	-	-	-	20	7	13
		West Virginia			North Carolina			South Carolina		
	All industries, total	173,002	26,270	146,732	314,428	71,443	242,985	179,264	36,662	142,602
20	Food and kindred products	3,502	625	2,877	20,253	4,813	15,440	7,362	1,041	6,321
21	Tobacco products	(D)	(D)	(D)	24,980	3,750	21,230	496	59	437
22	Textile mill products	237	23	214	108,103	17,436	90,667	87,612	17,943	69,669
23	Apparel and related products	450	133	317	6,258	1,281	4,977	4,227	1,779	2,448
24	Lumber and wood products	4,635	2,026	2,609	12,666	5,292	7,374	8,269	2,312	5,957
25	Furniture and fixtures	182	56	126	17,882	8,090	9,792	935	285	650
26	Paper and allied products	546	140	406	14,213	1,761	12,452	26,529	3,428	23,101
27	Printing and publishing	1,159	231	928	5,089	1,403	3,686	1,933	790	1,143
28	Chemicals and allied products	97,787	9,189	88,598	29,489	7,496	21,993	17,406	3,027	14,379
29	Petroleum and coal products	718	117	601	171	4	167	(D)	(D)	(D)
30	Rubber and plastics products, n.e.c.	(D)	(D)	(D)	1,296	198	1,098	1,712	542	1,170
31	Leather and leather products	106	36	70	157	68	89	(D)	(D)	(D)
32	Stone, clay and glass products	11,001	4,265	6,736	23,298	7,188	16,110	8,566	1,848	6,718
33	Primary metal industries	37,873	4,679	33,194	20,617	5,552	15,065	1,162	99	1,063
34	Fabricated metal products	2,225	455	1,770	6,532	2,094	4,438	2,652	1,071	1,581
35	Machinery, except electrical	1,712	758	954	3,956	928	3,028	4,741	1,566	3,175
36	Electrical machinery	4,698	2,562	2,136	13,109	2,249	10,860	3,087	365	2,722
37	Transportation equipment	(D)	(D)	(D)	2,793	704	2,089	424	181	243
38	Instruments and related products	166	29	137	2,492	834	1,658	977	39	938
39	Miscellaneous manufacturing	144	67	77	1,053	299	754	998	233	765
19	Ordnance and accessories	(D)	(D)	(D)	-	-	-	-	-	-
		Georgia			Florida			East South Central Division		
	All industries, total	202,163	53,649	148,514	190,617	45,272	145,345	747,054	186,274	560,780
20	Food and kindred products	22,886	5,440	17,446	34,235	10,566	23,669	57,917	12,934	44,983
21	Tobacco products	(D)	(D)	(D)	733	103	630	9,629	1,665	7,964
22	Textile mill products	37,016	6,382	30,634	409	84	325	30,142	3,878	26,264
23	Apparel and related products	6,666	2,179	4,487	1,209	336	873	11,283	2,976	8,307
24	Lumber and wood products	12,159	3,553	8,606	7,639	1,834	5,805	54,670	31,554	23,116
25	Furniture and fixtures	1,329	287	1,042	1,892	869	1,023	9,734	2,449	7,285
26	Paper and allied products	52,919	17,543	35,376	20,052	2,420	17,632	37,537	3,573	33,964
27	Printing and publishing	3,932	819	3,113	14,982	1,410	13,572	17,842	6,427	11,415
28	Chemicals and allied products	14,967	3,439	11,528	54,399	11,185	43,214	165,048	20,670	144,387
29	Petroleum and coal products	402	79	323	660	147	513	54,384	52,367	2,017
30	Rubber and plastics products, n.e.c.	2,631	624	2,007	1,003	135	868	14,673	1,614	13,059
31	Leather and leather products	332	8	324	227	120	107	3,260	540	2,720
32	Stone, clay and glass products	17,895	5,651	12,244	11,355	2,874	8,481	34,688	8,030	26,658
33	Primary metal industries	2,457	760	1,697	1,806	212	1,594	150,014	11,423	138,591
34	Fabricated metal products	7,486	1,457	6,029	9,059	1,555	7,504	23,467	8,179	15,288
35	Machinery, except electrical	3,737	1,556	2,181	3,175	885	2,290	23,458	4,560	18,898
36	Electrical machinery	1,896	274	1,622	10,435	3,592	6,843	24,758	7,103	17,655
37	Transportation equipment	11,610	3,312	8,298	7,515	4,113	3,402	17,131	4,302	12,829
38	Instruments and related products	(D)	(D)	(D)	(D)	(D)	(D)	1,859	522	1,337
39	Miscellaneous manufacturing	1,487	256	1,231	1,373	305	1,068	3,649	1,010	2,639
19	Ordnance and accessories	(D)	(D)	-	(D)	(D)	(D)	1,924	498	1,426

See footnotes at end of table.

TABLE 4. Manufacturers' Expenditures for New Plant and Equipment, by Major Industry Groups, Divisions, and States: 1963—Continued

(In thousands of dollars)

Code	Major industry group	Establishments in operation and under construction								
		Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment
		Kentucky			Tennessee			Alabama		
	All industries, total	223,561	31,007	192,554	244,897	51,860	193,037	147,395	21,072	126,323
20	Food and kindred products	16,456	4,728	11,728	20,208	3,578	16,630	13,138	2,767	10,371
21	Tobacco products	9,104	1,444	7,660	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products	840	107	733	10,492	2,030	8,462	17,398	1,626	15,772
23	Apparel and related products	1,435	361	1,074	4,366	1,237	3,129	3,443	948	2,495
24	Lumber and wood products	4,185	1,720	2,465	5,752	2,209	3,543	10,613	3,437	7,176
25	Furniture and fixtures	986	346	640	6,568	1,436	5,132	1,132	386	746
26	Paper and allied products	1,873	219	1,654	12,356	1,373	10,983	16,108	721	15,387
27	Printing and publishing	5,453	1,128	4,325	9,137	4,590	4,547	2,397	488	1,909
28	Chemicals and allied products	54,299	4,711	49,588	90,583	13,499	77,093	13,176	1,141	12,035
29	Petroleum and coal products	(D)	(D)	(D)	(D)	(D)	(D)	677	150	527
30	Rubber and plastics products, n.e.c.	1,735	102	1,633	4,792	805	3,987	6,414	648	5,766
31	Leather and leather products	(D)	-	(D)	2,233	535	1,698	(D)	(D)	(D)
32	Stone, clay and glass products	7,732	1,263	6,469	17,277	4,528	12,749	6,135	1,322	4,813
33	Primary metal industries	(D)	(D)	(D)	(D)	4,798	22,808	42,978	3,979	38,999
34	Fabricated metal products	7,705	2,769	4,936	7,705	2,750	4,955	4,711	1,363	3,348
35	Machinery, except electrical	12,278	2,632	9,646	6,415	1,250	5,165	2,345	483	1,862
36	Electrical machinery	10,083	2,229	7,854	8,692	4,051	4,641	1,813	418	1,395
37	Transportation equipment	4,749	1,563	3,186	5,992	1,573	4,419	3,248	700	2,548
38	Instruments and related products	571	264	307	1,232	253	979	(D)	(D)	(D)
39	Miscellaneous manufacturing	865	77	788	1,826	807	1,019	325	68	257
19	Ordnance and accessories	-	-	-	(D)	(D)	(D)	(D)	(D)	(D)
		Mississippi			West South Central Division			Arkansas		
	All industries, total	131,201	82,335	48,866	915,046	294,209	620,837	73,383	11,796	61,587
20	Food and kindred products	8,115	1,861	6,254	125,524	36,166	89,358	11,001	3,125	7,876
21	Tobacco products	-	-	-	(D)	(D)	(D)	-	-	-
22	Textile mill products	1,412	115	1,297	7,198	1,335	5,863	2,175	427	1,748
23	Apparel and related products	2,039	430	1,609	7,154	1,962	5,192	808	226	582
24	Lumber and wood products	34,120	24,188	9,932	30,037	8,514	21,523	11,186	2,471	8,715
25	Furniture and fixtures	1,048	281	767	4,687	1,354	3,333	1,444	553	891
26	Paper and allied products	7,200	1,260	5,940	59,773	3,652	56,121	20,385	634	19,751
27	Printing and publishing	855	221	634	21,201	5,373	15,828	2,311	244	2,067
28	Chemicals and allied products	6,990	1,319	5,671	290,922	71,314	219,608	5,014	408	4,606
29	Petroleum and coal products	(D)	(D)	(D)	146,376	104,082	42,294	945	78	867
30	Rubber and plastics products, n.e.c.	1,732	59	1,673	9,038	1,129	7,909	1,709	383	1,326
31	Leather and leather products	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay and glass products	3,544	917	2,627	74,911	25,802	49,109	5,216	1,624	3,592
33	Primary metal industries	155	23	132	29,711	3,359	26,352	2,599	230	2,369
34	Fabricated metal products	3,346	1,297	2,049	25,548	6,229	19,319	1,853	573	1,280
35	Machinery, except electrical	2,420	195	2,225	26,596	6,029	20,567	1,378	335	1,043
36	Electrical machinery	4,170	405	3,765	23,273	7,226	16,047	3,412	164	3,248
37	Transportation equipment	3,142	466	2,676	31,184	8,512	22,672	848	212	636
38	Instruments and related products	40	-	40	1,559	479	1,080	(D)	(D)	(D)
39	Miscellaneous manufacturing	633	58	575	2,511	702	1,809	575	74	501
19	Ordnance and accessories	-	-	-	3,134	1,487	1,647	(D)	(D)	(D)
		Louisiana			Oklahoma			Texas		
	All industries, total	210,837	47,801	163,036	63,562	16,497	47,065	567,264	218,115	349,149
20	Food and kindred products	29,779	7,756	22,023	10,977	2,445	8,532	73,767	22,840	50,927
21	Tobacco products	(D)	(D)	(D)	-	-	-	(D)	-	(D)
22	Textile mill products	(D)	(D)	(D)	(D)	-	(D)	4,966	899	4,067
23	Apparel and related products	385	41	344	476	28	448	5,485	1,667	3,818
24	Lumber and wood products	9,202	2,630	6,572	724	126	598	8,925	3,287	5,638
25	Furniture and fixtures	208	22	186	356	(D)	(D)	2,679	669	2,010
26	Paper and allied products	26,158	969	25,189	1,353	46	1,307	11,877	2,003	9,874
27	Printing and publishing	1,787	355	1,432	3,827	1,842	1,985	13,276	2,932	10,344
28	Chemicals and allied products	98,488	19,817	78,671	3,865	239	3,626	183,555	50,850	132,705
29	Petroleum and coal products	27,902	11,419	16,483	4,391	2,352	2,039	113,138	90,233	22,905
30	Rubber and plastics products, n.e.c.	194	81	113	2,896	173	2,723	4,239	492	3,747
31	Leather and leather products	(D)	(D)	(D)	25	-	25	(D)	(D)	(D)
32	Stone, clay and glass products	4,645	1,277	3,368	11,854	4,421	7,433	53,196	18,480	34,716
33	Primary metal industries	3,231	924	2,307	2,992	479	2,513	20,889	1,726	19,163
34	Fabricated metal products	3,500	485	3,015	2,387	591	1,796	17,808	4,580	13,228
35	Machinery, except electrical	1,794	652	1,142	5,570	1,068	4,502	17,854	3,974	13,880
36	Electrical machinery	108	29	79	3,506	133	3,373	16,247	6,900	9,347
37	Transportation equipment	2,968	1,196	1,772	7,852	2,264	5,588	19,516	4,840	14,676
38	Instruments and related products	247	108	139	(D)	(D)	(D)	1,012	266	746
39	Miscellaneous manufacturing	176	29	147	294	79	215	1,466	520	946
19	Ordnance and accessories	-	-	-	(D)	-	(D)	(D)	(D)	(D)

See footnotes at end of table.

TABLE 4. Manufacturers' Expenditures for New Plant and Equipment, by Major Industry Groups, Divisions, and States: 1963—Continued

(In thousands of dollars)

Code	Major industry group	Establishments in operation and under construction								
		Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment
		Mountain Division			Montana			Idaho		
	All industries, total	247,009	90,543	156,466	38,587	19,775	18,812	28,366	9,223	19,143
20	Food and kindred products	51,342	15,041	36,301	2,892	635	2,257	7,930	2,703	5,227
21	Tobacco products	-	-	-	-	-	-	-	-	-
22	Textile mill products	(D)	(D)	(D)	-	-	-	-	-	-
23	Apparel and related products	552	142	410	(D)	-	-	(D)	-	(D)
24	Lumber and wood products	28,908	9,468	19,440	9,755	3,882	5,873	11,743	3,468	8,275
25	Furniture and fixtures	(D)	(D)	(D)	(D)	(D)	(D)	16	(D)	(D)
26	Paper and allied products	5,595	609	4,986	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing	8,403	1,807	6,596	465	115	350	607	143	464
28	Chemicals and allied products	11,472	3,324	8,148	292	258	34	2,253	1,476	777
29	Petroleum and coal products	22,150	12,637	9,513	7,685	(D)	(D)	(D)	(D)	(D)
30	Rubber and plastics products, n.e.c.	5,505	1,782	3,723	3	(D)	(D)	-	-	-
31	Leather and leather products	750	58	692	-	(D)	-	(D)	-	(D)
32	Stone, clay and glass products	30,062	16,118	13,944	12,392	11,440	952	1,331	489	842
33	Primary metal industries	19,932	4,583	15,349	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products	4,470	1,131	3,339	128	34	94	285	69	216
35	Machinery, except electrical	7,248	1,235	6,013	83	21	62	218	71	147
36	Electrical machinery	20,831	11,819	9,012	-	(NA)	-	-	-	-
37	Transportation equipment	13,488	3,852	9,636	(D)	(D)	(D)	885	451	434
38	Instruments and related products	1,203	811	392	(D)	(D)	(D)	(D)	-	(D)
39	Miscellaneous manufacturing	1,835	385	1,450	28	2	26	77	6	71
19	Ordnance and accessories	12,339	5,473	6,866	-	-	-	(D)	(D)	(D)
		Wyoming			Colorado			New Mexico		
	All industries, total	13,971	10,308	3,663	68,026	20,684	47,342	10,357	4,294	6,063
20	Food and kindred products	1,083	141	942	24,046	6,741	17,305	2,526	1,073	1,453
21	Tobacco products	-	-	-	-	-	-	-	-	-
22	Textile mill products	-	-	-	(D)	(D)	(D)	-	-	-
23	Apparel and related products	(D)	-	(D)	170	40	130	22	3	19
24	Lumber and wood products	811	299	512	1,620	477	1,143	1,725	725	1,000
25	Furniture and fixtures	(D)	-	(D)	271	131	140	(D)	(D)	(D)
26	Paper and allied products	-	-	-	631	201	430	(D)	-	(D)
27	Printing and publishing	268	61	207	3,001	670	2,331	739	192	547
28	Chemicals and allied products	35	10	25	1,648	283	1,365	749	583	166
29	Petroleum and coal products	11,072	9,589	1,483	1,500	240	1,260	318	62	256
30	Rubber and plastics products, n.e.c.	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather products	-	-	-	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay and glass products	514	153	361	4,421	1,214	3,207	1,866	335	1,531
33	Primary metal industries	-	-	-	2,496	346	2,150	(D)	(D)	(D)
34	Fabricated metal products	92	20	72	2,060	494	1,566	122	62	60
35	Machinery, except electrical	56	24	32	2,386	544	1,842	260	66	194
36	Electrical machinery	(D)	(D)		(D)	(D)	(D)	297	61	236
37	Transportation equipment	(D)	(D)	(D)	(D)	(D)	(D)	89	34	55
38	Instruments and related products	(D)	(D)	(D)	265	96	169	(D)	(D)	(D)
39	Miscellaneous manufacturing	(D)	(D)	(D)	407	159	248	(D)	(D)	(D)
19	Ordnance and accessories	-	-	-	(D)	(D)	(D)	(D)	(D)	(D)
		Arizona			Utah			Nevada		
	All industries, total	49,451	19,106	30,345	29,601	5,678	23,923	8,650	1,475	7,175
20	Food and kindred products	7,035	2,233	4,802	5,071	1,390	3,681	759	125	634
21	Tobacco products	-	-	-	-	-	-	-	-	-
22	Textile mill products	(D)	-	(D)	19	3	16	-	-	-
23	Apparel and related products	129	22	107	224	77	147	(D)	-	(D)
24	Lumber and wood products	2,299	261	2,038	656	243	413	299	113	186
25	Furniture and fixtures	203	40	163	171	29	142	(D)	(D)	(D)
26	Paper and allied products	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing	1,707	294	1,413	1,030	172	858	586	160	426
28	Chemicals and allied products	2,024	214	1,810	1,138	412	726	3,333	88	3,245
29	Petroleum and coal products	97	27	70	1,426	593	833	(D)	(D)	(D)
30	Rubber and plastics products, n.e.c.	(D)	(D)	(D)	(D)	(D)	(D)	-	-	-
31	Leather and leather products	5	(D)	(D)	(D)	(D)	(D)	-	-	-
32	Stone, clay and glass products	4,598	1,151	3,447	2,396	525	1,871	2,544	811	1,733
33	Primary metal industries	4,293	1,781	2,512	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products	931	253	678	741	160	581	111	39	72
35	Machinery, except electrical	3,598	338	3,260	596	152	444	51	19	32
36	Electrical machinery	(D)	(D)	(D)	329	33	296	124	14	110
37	Transportation equipment	2,237	703	1,534	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products	(D)	(D)	(D)	(D)	(D)	(D)	-	-	-
39	Miscellaneous manufacturing	141	44	97	(D)	(D)	(D)	(D)	(D)	(D)
19	Ordnance and accessories	(D)	(D)	(D)	(D)	(D)	(D)	-	-	-

See footnotes at end of table.

TABLE 4. Manufacturers' Expenditures for New Plant and Equipment, by Major Industry Groups, Divisions, and States: 1963—Continued

(In thousands of dollars)

Code	Major industry group	Establishments in operation and under construction								
		Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment	Total expenditures	New structures and additions to plant	New machinery and equipment
		Pacific Division			Washington			Oregon		
	All industries, total	1,290,399	369,295	921,104	143,415	39,579	103,836	132,014	28,571	103,443
20	Food and kindred products	192,230	46,488	145,742	16,193	4,436	11,757	13,479	3,945	9,534
21	Tobacco products	(D)	(D)	(D)	-	-	-	-	-	-
22	Textile mill products	4,665	705	3,960	(D)	(D)	(D)	1,415	20	1,395
23	Apparel and related products	8,053	1,800	6,253	367	59	308	198	19	179
24	Lumber and wood products	151,839	37,510	114,329	39,756	10,194	29,562	67,513	14,588	52,925
25	Furniture and fixtures	(D)	(D)	(D)	569	198	371	567	171	396
26	Paper and allied products	81,026	11,356	69,670	26,339	4,012	22,327	18,902	1,717	17,185
27	Printing and publishing	43,143	11,763	31,380	4,556	1,071	3,485	2,880	1,077	1,803
28	Chemicals and allied products	71,827	16,063	55,764	2,861	348	2,513	4,677	1,245	3,432
29	Petroleum and coal products	73,395	49,643	23,752	5,899	5,186	713	(D)	(D)	(D)
30	Rubber and plastics products, n.e.c.	38,045	7,386	30,659	475	173	302	236	18	218
31	Leather and leather products	760	72	688	17	(D)	(D)	(D)	(D)	(D)
32	Stone, clay and glass products	70,025	13,679	56,346	6,009	1,176	4,833	6,344	1,442	4,902
33	Primary metal industries	63,957	12,658	51,299	10,729	3,995	6,734	(D)	(D)	(D)
34	Fabricated metal products	62,362	15,046	47,316	2,409	656	1,753	2,845	496	2,349
35	Machinery, except electrical	56,927	14,879	42,048	3,012	928	2,084	2,105	676	1,429
36	Electrical machinery	107,635	38,825	68,810	1,187	220	967	3,163	1,825	1,338
37	Transportation equipment	170,655	64,722	105,933	10,576	3,689	6,887	3,257	828	2,429
38	Instruments and related products	13,418	3,896	9,522	(D)	(D)	(D)	470	79	391
39	Miscellaneous manufacturing	13,549	5,578	7,971	575	270	305	653	202	451
19	Ordnance and accessories	57,390	14,242	43,148	(D)	(D)	(D)	(D)	(D)	(D)
		California			Alaska			Hawaii		
	All industries, total	985,114	289,881	695,233	14,481	8,818	5,663	15,375	2,446	12,929
20	Food and kindred products	149,435	36,853	112,582	1,685	395	1,290	11,438	859	10,579
21	Tobacco products	(D)	(D)	(D)	-	-	-	-	-	-
22	Textile mill products	3,111	665	2,446	-	-	-	(D)	(D)	(D)
23	Apparel and related products	7,234	1,655	5,579	-	-	-	(D)	(D)	(D)
24	Lumber and wood products	43,082	12,390	30,692	1,369	305	1,064	119	33	86
25	Furniture and fixtures	8,212	2,580	5,632	(D)	(D)	(D)	(D)	(D)	(D)
26	Paper and allied products	34,305	5,620	28,685	(D)	-	(D)	(D)	(D)	(D)
27	Printing and publishing	35,119	9,490	25,629	128	41	87	460	84	376
28	Chemicals and allied products	63,857	14,349	49,508	(D)	(D)	(D)	(D)	(D)	(D)
29	Petroleum and coal products	57,055	35,731	21,324	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber and plastics products, n.e.c.	37,268	7,146	30,122	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather products	661	48	613	-	-	-	34	13	21
32	Stone, clay and glass products	56,687	10,780	45,907	322	87	235	663	194	469
33	Primary metal industries	50,077	8,478	41,599	-	-	-	(D)	-	(D)
34	Fabricated metal products	56,533	13,748	42,785	25	4	21	550	142	408
35	Machinery, except electrical	51,669	13,215	38,454	18	9	9	123	51	72
36	Electrical machinery	103,263	36,776	66,487	(D)	(D)	(D)	(D)	(D)	(D)
37	Transportation equipment	156,737	60,168	96,569	43	23	20	42	14	28
38	Instruments and related products	12,861	3,799	9,062	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufacturing	12,264	5,089	7,175	12	5	7	45	12	33
19	Ordnance and accessories	45,683	11,301	34,382	-	-	-	-	-	-

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
(S) Withheld because the estimate did not meet publication standards.

Power Equipment in Manufacturing Industries

Chapter 6

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POWER EQUIPMENT

The tables contained in this chapter show the horsepower rating of power equipment available in manufacturing industries as of December 31, 1962. Since 1939, such statistics have been compiled only once each decade, and because of changed definitions of manufacturing industries, comparative data, except in table 1, are shown only for 1954 and 1962. Figures for 1954 have been revised at the "All manufacturing"and 2-digit SIC levels to reflect the principal revisions in industry classification stemming from the 1957 Standard Industrial Classification. Only the 1954 "All industries" and "All States" totals have been adjusted to reflect data for Alaska and Hawaii; the individual industry and industry group figures exclude plants in those areas.

The 1962 statistics represent reciprocal estimates based on reports received from approximately 61,000 establishments comprising a probability sample (see below). The sample was designed to yield estimates for industry groups (table 2), important individual industries (table 3), geographic divisions, and States (table 4), and standard metropolitan statistical areas (table 6). Aggregates for selected major industry groups within States and SMSA's are also shown (tables 5 and 7). All of these data are based on tabulated figures collected in a special survey, MC-D-12, Supplementary Inquiries for 1962. This survey is a part of the 1963 Census of Manufactures program.

AVAILABLE STATISTICS FOR PRIOR YEARS

The first census of power equipment available in manufacturing establishments was made by the Bureau of the Census in 1870 covering the year 1869. Data were also compiled in subsequent censuses. Because certain industries included in earlier censuses were not covered by the 1939 census, the power equipment statistics from 1899 through 1929 were adjusted in 1939 to provide a comparable series for the 70-year period. The comparability of the 1954 and 1962 statistics with those for 1939 is affected by (a) the exclusion from the 1954 and 1962 inquiry of fractional horsepower motors included in the 1939 totals, and (b) the omission of data for selected industry groups in 1954 included in the 1939 and 1962 totals.

Data on aggregate horsepower per 100 (factory) production workers are comparable for all years, except for 1954 and for years prior to 1899 (table 1). The figures for 1954 exclude data for all establishments in Industry Group 279, Printing Trade Services, and those in Major Group 23, except Industry Group 238, Miscellaneous Apparel. The number of wage earners as published in the census reports prior to 1899 includes those in factory as well as in hand trades and neighborhood industries (carpentry, millinery, painting, etc.) and custom grist milling, custom saw milling, and cotton ginning. Changes in the minimum size limit set for establishments included in the several censuses, or the number of manufacturing establishments requested to report power equipment data are believed to have an insignificant effect on the industry or State totals appearing in this report.

DESCRIPTION AND DEFINITION OF TERMS

Totals for prime movers and electric motors are shown separately. The horsepower ratings for "prime movers" include information for such types of power equipment as internal combustion engines, steam and hydraulic turbines, and reciprocating steam engines. The totals for prime movers are further separated between those driving

electric generators and those used for other purposes. The statistics for prime movers not driving generators exclude data for automobiles, trucks, and other highway equipment.

The aggregate horsepower figure represents the unduplicated rating for total installed equipment and thus provides a measure of the mechanical power available in manufacturing establishments. The figure is derived by summing the horsepower rating of prime movers and that for electric motors driven by purchased electricity. To secure the latter figure the total horsepower for electric motors was distributed, by establishment, into two categories: Motors driven by purchased electricity and motors driven by energy generated at the establishment. For the relatively small number of establishments which both generate and purchase electricity, the total horsepower for electric motors was prorated on the basis of the ratio of the net quantity purchased to the net total for electricity consumed.

As in past censuses, respondents were requested to report horsepower of stand-by equipment as well as equipment in operation at the end of the year, including all prime movers and motors in mobile (except automobiles, trucks, and other highway equipment) as well as in stationary equipment. Information for fractional horsepower motors, however, was not reported for either 1962 or 1954.

THE REPORTING FORM

The 1962 reporting categories are similar to those for 1954 except that respondents in 1962 were requested to report figures for electric motors separately for two categories: (1) Those rated five horsepower and over, and (2) those rated one horsepower but less than five. Approximately 91 percent of the total was reported in this detail. Of the total horsepower rating reported in this detail, about 89 percent represents data for motors rated five horsepower or more, and the remainder for motors rated from one to five horsepower.

Information on the type of generating equipment available was also requested. Such detail was reported for 90 percent of the total (24 million horsepower) for all prime movers generating electricity, and these prime movers accounted for about 96 percent of the 82 billion kw.-hrs. of electricity generated in manufacturing industries in 1962. The distribution of both horsepower and electricity generated by reported type of equipment is as follows:

Type of generating equipment	Percent	
	Horse-power	Electricity generated
Steam	79	80
Hydro	2	2
Internal combustion engines and other	12	13
Combinations of above	7	5

The reporting form used, MC-D-12, Census of Manufactures, Supplementary Inquiries for 1962, not only included inquiries on the horsepower rating of installed equipment but also on specified fuels consumed and electricity purchased and/or generated by the reporting manufacturing establishment. These data as well as the reported information on total number of employees and value of shipments were also tabulated and/or used (a) for review of internal consistency in reporting and (b) to coordinate with the data reported in the 1962 Annual Survey of Manufactures.

SAMPLE PANEL

The reporting panel for this survey is basically the same as that used for the 1962 Annual Survey of Manufactures. The Annual Survey panel consisted of a probability sample drawn from (a) the list of all manufacturing establishments included in the 1958 Census of Manufactures, (b) lists of new manufacturing companies obtained from the Bureau of Old-Age and Survivors Insurance, and (c) any new plants acquired or constructed by companies selected for the sample. (For further details see 1962 Annual Survey of Manufactures, Introduction.) In order to reduce the standard error of estimates for selected industries, the Annual Survey of Manufactures panel of about 60,000 establishments was supplemented by selecting about 1,000 additional establishments classified in 14 specified industries which had relatively high sampling errors associated with the 1961 Annual Survey estimates of fuel costs. The fourteen 4-digit industries from which establishments were selected as a supplemental sample are as follows:

Industry	Title
2023	Condensed and Evaporated Milk
2046	Wet Corn Milling
2096	Shortening and Cooking Oils
2231	Weaving, Finishing Mills, Wool
2261	Finishing Plants, Cotton
2816	Inorganic Pigments
2952	Asphalt Felts and Coatings
3111	Leather Tanning and Finishing
3251	Brick and Structural Tile
3259	Structural Clay Products, n.e.c.
3274	Lime
3341	Secondary Nonferrous Metals
3461	Vitreous Plumbing Fixtures
3729	Aircraft Equipment, n.e.c.

Establishments classified in these 14 industries were assigned probabilities of selection dependent on their 1958 total employment and their 4-digit industry classification. Based on these probabilities, a new sample of establishments was selected independently of the Annual Survey of Manufactures panel. Those establishments in the new sample which were not already included in the Annual Survey panel constituted the supplementary panel. Establishments in this supplementary panel were assigned their 1958 industry and geographic codes.

In order to develop unbiased estimates for these 14 industries, composite weights were assigned, to reflect that each establishment in these industries (with the exception of new manufacturing establishments which commenced operations after 1958) had a dual chance of selection, once for the Annual Survey of Manufactures, and once in the supplementary sampling operation. The formula for the weights assigned is as follows:

$$W_c = \frac{W_1 W_2}{W_1 + W_2 - 1}$$

Where W_c = composite weight

W_1 = weight associated with probability of selection in Annual Survey of Manufactures

W_2 = weight associated with probability of selection in supplemental sampling operation

All establishments other than those in the supplemental panel carry the identical sample weights assigned for the Annual Survey of Manufactures. Furthermore, the geographic and industry codes also assigned in this survey are identical with those used for tabulating the 1962 Annual Survey of Manufactures. These identical characteristics of the two surveys permit the correlation of data appearing in this report with information appearing in the 1962 Annual Survey of Manufactures publications as well as with the information on specified fuels consumed and electric energy generated and purchased, also tabulated from the MC-D-12 survey.

ESTIMATING PROCEDURE

The statistics presented in this report are reciprocal estimates obtained by inflating each establishment's reported data by its sample weight and summing the inflated figures. Algebraically these estimates may be expressed as follows:

$$X_h^1 \quad \sum_{i=1}^{n_h} \quad W_{hi} \quad X_{hi}$$

Where X_h^1 is the estimated total for tabulation cell "h"

X_h is the 1962 reported figure for establishment "i" in tabulation cell "h"

W_{hi} is the assigned weight for that establishment

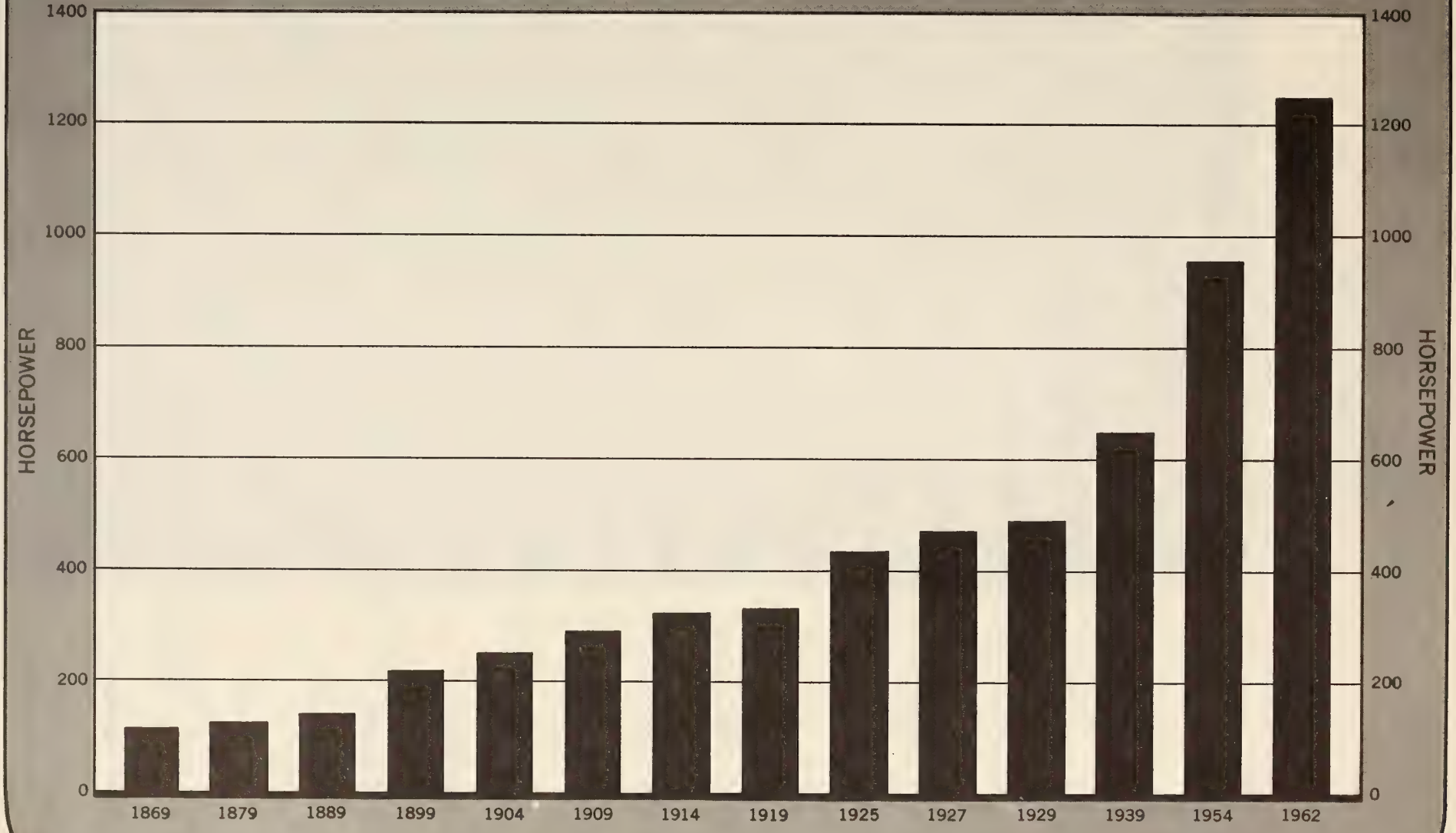
n_h is the number of establishments in tabulation cell "h"

QUALIFICATIONS OF THE PUBLISHED DATA

All figures published in this report should be regarded as approximate rather than exact measures. The estimates differ from the true figures because of sampling variations, reporting errors, and processing errors. Standard errors shown in the tables indicate the general magnitude of the sampling variations for "aggregate horsepower" and "total electric motors." The magnitudes of the sampling variations for other estimates appearing in this report are slightly higher. Specifically, the standard errors indicate the approximate range on either side of the published estimates within which a correspondingly complete census total would fall if a census were conducted under conditions that were strictly comparable with those of this survey. The estimates will differ from a complete canvass result, for reason of sampling variation, by less than (a) the percentage shown approximately 2 times out of 3; (b) twice the percentage shown approximately 19 times out of 20; and (c) three times the percentage shown almost always. Estimates with a standard error exceeding 25 percent generally are not shown.

Measures of the reporting and processing errors are unavailable. However, estimates which were subject to large errors from such sources were detected and corrected in the process of Census Bureau review of the data. Other specific qualifications of the published data are indicated in the appropriate footnotes to the tables.

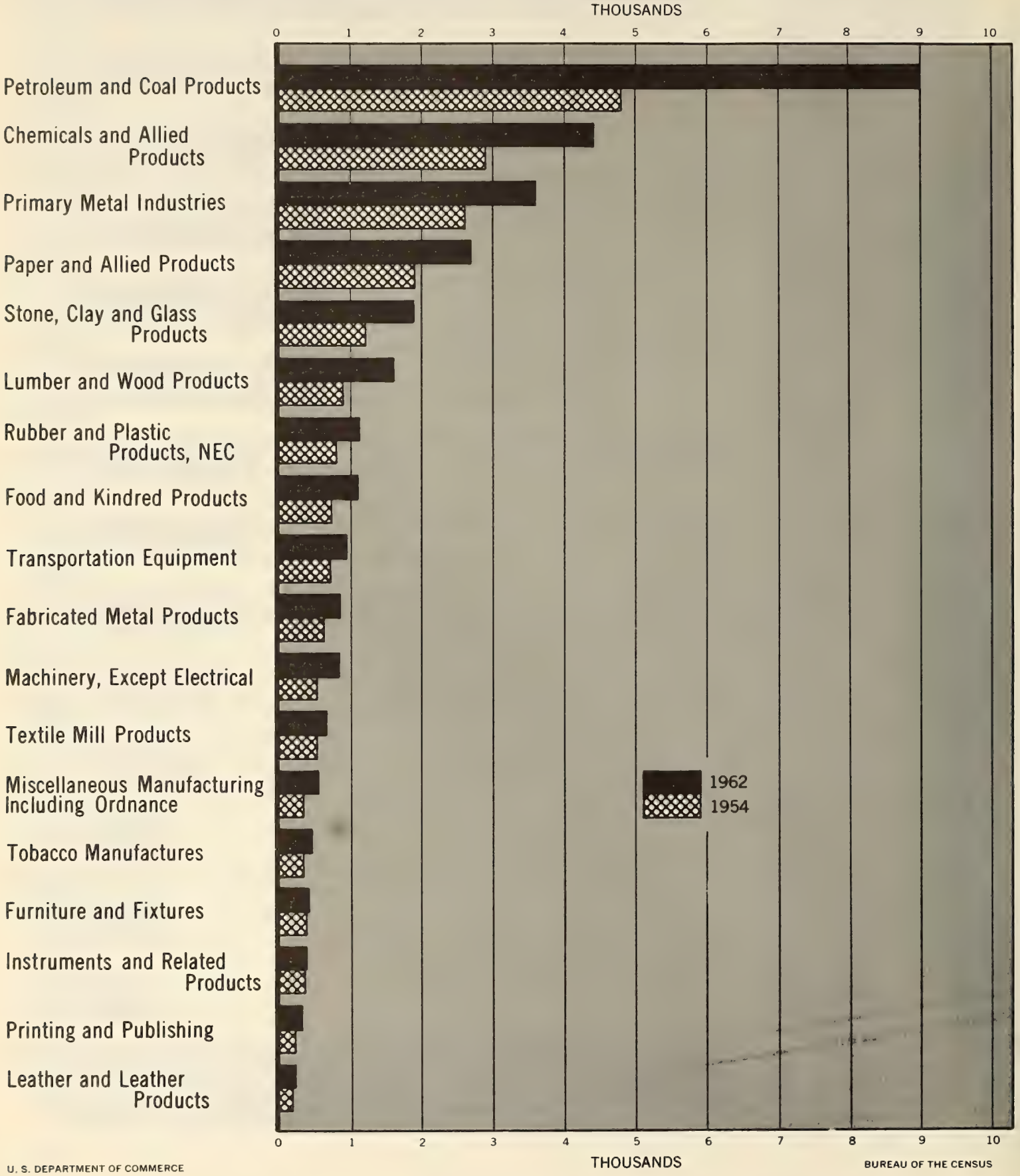
AGGREGATE HORSEPOWER OF POWER EQUIPMENT PER 100 PRODUCTION WORKERS FOR THE UNITED STATES: 1869-1962



U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

AGGREGATE HORSEPOWER OF POWER EQUIPMENT PER 100 PRODUCTION WORKERS FOR SELECTED MAJOR INDUSTRY GROUPS: 1962-1954



U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. Horsepower of Power Equipment in Manufacturing Industries: 1962 and Earlier Years

Year	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers
		Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishment	
1962	151,498	45,770	24,097	21,673	126,783	105,728	21,054	[1]1,249
1954[2]	108,100	35,763	21,036	14,727	91,505	72,337	19,168	958
1939[3]	49,893	21,077	13,849	7,228	44,827	28,816	16,011	652
1929	41,122	19,328	(NA)	(NA)	33,844	21,794	12,050	491
1927	37,126	18,902	(NA)	(NA)	29,153	18,224	10,929	473
1925	34,359	19,243	(NA)	(NA)	25,092	15,116	9,976	437
1919	28,397	19,432	(NA)	(NA)	15,612	8,965	6,647	333
1914	21,565	17,858	(NA)	(NA)	8,392	3,707	4,684	326
1909	18,062	16,393	(NA)	(NA)	4,582	1,669	2,913	288
1904	13,033	12,605	(NA)	(NA)	1,517	428	1,089	252
1899	9,811	9,633	(NA)	(NA)	475	178	297	218
1899[4]	10,988	10,805	(NA)	(NA)	494	183	311	207
1889[4]	(NA)	5,939	(NA)	(NA)	15	(NA)	(NA)	140
1879[4]	(NA)	3,410	(NA)	(NA)	(NA)	(NA)	(NA)	125
1869[4]	(NA)	2,346	(NA)	(NA)	(NA)	(NA)	(NA)	114

NA Not available.

[1]The 1962 figure comparable to 1954, based on the 1954 industry coverage (see text), is 1,365 Figures for earlier censuses are comparable with 1962 except as explained in footnote 4.

[2]The 1954 figures have been revised to include data for Alaska and Hawaii as well as revised figures for Industry 3851, "Ophthalmic goods."

[3]The data for 1939 include revisions due primarily to differences in scope of the 1939 and 1954 Censuses of Manufactures.

[4]Includes data for hand trades and neighborhood industries.

TABLE 2. Horsepower of Power Equipment in Manufacturing Industries, by Major Industry Groups: 1962 and 1954

Code	Major industry group	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
		A	B	C	D	E	F	G	H	A	E
	All industries, total.....1962...	151,498	45,770	24,097	21,673	126,783	105,728	21,054	[1]1,249	1	1
	1954[2,3]	108,100	35,763	21,036	14,727	91,505	72,337	19,168	958	-	-
20	Food and kindred products.....1962...	11,884	2,346	1,276	1,070	10,557	9,538	1,018	1,062	1	1
	1954...	8,311	1,814	1,060	754	7,436	6,497	939	712	-	-
21	Tobacco products.....1962...	295	82	68	14	279	213	66	438	2	2
	1954...	256	90	75	15	193	166	27	295	-	-
22	Textile mill products.....1962...	5,043	646	519	127	4,667	4,397	270	643	1	1
	1954...	4,463	855	763	92	4,042	3,608	434	481	-	-
23	Apparel and related products....1962...	250	30	16	14	223	220	3	23	4	5
	1954[3]..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	-	-
24	Lumber and wood products.....1962...	7,710	3,196	920	2,276	5,000	4,515	485	1,572	2	2
	1954...	5,151	2,453	991	1,462	3,240	2,698	542	885	-	-
25	Furniture and fixtures.....1962...	1,265	140	63	77	1,147	1,125	22	413	3	2
	1954...	949	99	79	20	924	850	74	331	-	-
26	Paper and allied products.....1962...	12,477	6,274	5,254	1,020	12,697	6,204	6,493	2,690	1	1
	1954...	8,256	4,239	3,529	710	7,859	4,017	3,842	1,895	-	-
27	Printing and publishing.....1962...	1,746	44	25	19	1,705	1,702	4	309	4	4
	1954[3]..	975	45	34	11	930	930	...	211	-	-
28	Chemicals and allied products...1962...	20,553	8,725	5,047	3,678	14,937	11,829	3,108	4,373	1	1
	1954...	13,521	6,565	3,625	2,940	9,624	6,956	2,668	2,868	-	-
29	Petroleum and coal products.....1962...	9,916	6,102	1,061	5,041	5,006	3,814	1,193	9,008	1	1
	1954...	6,506	4,494	1,143	3,351	3,258	2,012	1,246	4,789	-	-
30	Rubber and plastics products, n.e.c.....1962...	3,549	404	274	130	3,383	3,145	237	1,131	2	2
	1954...	2,211	342	271	71	2,177	1,869	308	813	-	-
31	Leather and leather products....1962...	587	84	68	16	536	503	33	191	2	3
	1954...	505	87	77	10	463	418	45	157	-	-
32	Stone, clay and glass products..1962[4]..	8,716	2,152	789	1,363	7,189	6,564	625	1,881	1	1
	1954...	4,811	1,199	792	407	4,357	3,612	745	1,168	-	-
33	Primary metal industries.....1962...	33,304	11,115	7,109	4,006	28,595	22,189	6,406	3,614	1	1
	1954...	25,546	10,255	6,544	3,711	22,176	15,291	6,885	2,606	-	-
34	Fabricated metal products.....1962...	6,974	723	188	535	6,305	6,251	53	837	1	1
	1954...	5,127	323	185	138	4,891	4,804	87	602	-	-
35	Machinery, except electrical....1962...	8,643	1,030	476	554	7,979	7,610	369	836	1	1
	1954...	[5]9,497	[5]965	[5]705	[5]260	[5]9,062	[5]8,532	[5]530	[5]514	-	-
36	Electrical machinery.....1962...	4,813	764	294	470	4,200	4,049	151	471	1	1
	1954...	([5])	([5])	([5])	([5])	([5])	([5])	([5])	([5])	-	-
37	Transportation equipment.....1962...	10,699	1,379	301	1,078	9,540	9,320	220	953	1	1
	1954...	9,041	1,347	796	551	8,130	7,694	436	681	-	-
38	Instruments and related products.....1962...	860	222	146	76	792	638	154	378	2	2
	1954...	667	167	109	58	642	500	142	341	-	-
39 } 19 }	Miscellaneous manufacturing, including ordnance.....1962...	2,215	313	201	112	2,047	1,903	144	529	3	3
	1954...	2,036	230	120	110	1,892	1,806	86	309	-	-

Note: Detailed figures may not add to totals because of independent rounding. No standard errors are shown for 1954 because these data are not subject to sampling variation (see text).

NA Not available.

[1]The 1962 figure comparable to 1954, based on the 1954 industry coverage (see footnote 3), is 1,365.

[2]Figures for 1954 reflect the principal revisions in industry classifications stemming from the 1957 Standard Industrial Classification and revised totals for Industry 3851, "Ophthalmic goods." Data for Alaska and Hawaii are included in the 1954 "All industries" total but have not been distributed by major group. The aggregate horsepower for these two States amounted to 232 thousand, of which 190 thousand was reported by establishments classified in Major Group 20.

[3]In the Apparel Industries, Major Group 23, horsepower data were collected only for Industry Group 238, Miscellaneous Apparel. Consequently totals for the 2-digit group are not available. The industries which were not canvassed would have a negligible effect on the United States totals. In the Printing and Publishing Industries, Major Group 27, horsepower data were not collected for group 279, Printing Trades Service Industries. Since these industries would have a negligible effect on the totals for Major Group 27, the Major Group totals are shown.

[4]Includes data for Industry 3273, Ready-Mixed Concrete, which was included in the scope of manufacturing industries since 1958. (See table 3.)

[5]Data for Major Groups 35 and 36 combined. Aggregate horsepower per 100 production workers for Major Groups 35 and 36 combined is 655 for 1962.

TABLE 3. Horsepower of Power Equipment in Manufacturing Industries, by Major Industry Groups and Industries: 1962

Code	Industry group and industry	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
		A	B	C	D	E	F	G	H	A	E
	All industries, total	151,498	45,770	24,097	21,673	126,783	105,728	21,054	1,249	1	1
20	Food and kindred products	11,884	2,346	1,276	1,070	10,557	9,538	1,018	1,062	1	1
201	Meat products	1,409	185	66	119	1,285	1,223	61	587	3	3
2011	Meat packing plants	1,010	166	56	110	905	845	60	713	4	4
2013	Prepared meats	182	10	6	4	172	172	(Z)	498	5	5
2015	Poultry dressing plants	216	9	4	5	207	207	1	349	4	4
202	Dairy products	1,732	151	72	79	1,611	1,581	31	1,412	3	3
2021	Creamery butter	184	28	9	19	162	156	6	1,721	12	12
2022	Natural cheese	98	9	2	7	89	89	(Z)	833	10	11
2023	Condensed and evaporated milk	159	46	34	12	129	113	15	1,633	3	3
2024	Ice cream and frozen desserts	289	7	5	2	282	282	-	1,799	6	6
2025	Special dairy products	19	3	(Z)	2	16	16	-	622	8	7
2026	Fluid milk	983	58	22	36	933	925	8	1,378	4	4
203	Canned and frozen foods	1,557	385	114	270	1,211	1,172	39	752	2	2
2031	Canned and cured seafoods	76	30	22	8	50	46	4	512	9	8
2032	Canned specialties	178	39	15	24	159	139	20	876	3	3
2033	Canned fruits and vegetables	725	233	56	177	492	492	(Z)	776	3	3
2034	Dehydrated fruits and vegetables	61	17	3	14	45	45	-	772	10	9
2035	Pickles and sauces	82	10	1	9	72	72	(Z)	473	7	8
2036	Fresh or frozen packaged fish	54	7	5	2	47	47	(Z)	371	12	11
2037	Frozen fruits and vegetables	380	49	12	37	346	331	14	985	6	7
204	Grain mill products	2,023	365	268	96	1,923	1,659	265	2,479	3	3
2041	Flour and meal	525	36	14	22	505	489	16	2,779	5	5
2042	Prepared animal feeds	986	70	22	48	921	916	5	2,708	5	5
2043	Cereal preparations	114	9	7	2	122	104	17	1,192	1	1
2044	Rice milling	60	8	5	3	53	53	(Z)	1,799	11	12
2045	Blended and prepared flour	40	5	3	2	38	35	3	1,238	4	4
2046	Wet corn milling	298	237	218	19	285	61	224	2,914	4	4
205	Bakery products	700	31	13	18	670	670	-	411	4	4
2051	Bread and related products	580	25	11	14	556	556	-	423	5	4
2052	Biscuit and crackers	120	6	2	4	114	114	-	362	2	2
206	Sugar	831	686	472	214	573	145	428	3,332	1	1
2061	Raw cane sugar	366	290	152	138	156	77	79	[1]6,747	1	1
2062	Cane sugar refining	185	167	141	26	175	18	157	1,859	1	1
2063	Beet sugar	281	229	179	50	243	51	192	2,901	1	1
207	Candy and related products	411	77	51	27	377	334	43	646	2	2
2071	Confectionery products	239	29	10	19	216	210	6	451	3	3
2072	Chocolate and cocoa products	149	44	38	6	141	105	36	2,144	1	2
2073	Chewing gum	23	4	2	2	20	19	(Z)	620	1	1
208	Beverages	1,167	276	158	118	1,004	891	113	1,046	3	3
2082	Malt liquors	495	163	102	61	396	332	65	1,105	1	1
2083	Malt	129	23	22	1	118	106	12	7,776	18	20
2084	Wines and brandy	69	4	1	3	65	65	-	1,842	19	20
2085	Distilled liquor, except brandy	142	40	16	24	121	102	18	981	2	2
2086	Bottled and canned soft drinks	280	37	10	27	243	243	(Z)	676	7	7
2087	Flavorings	53	9	7	2	60	43	17	976	8	6
209	Other food preparations	2,054	191	62	128	1,903	1,864	39	2,126	4	5
2091	Cottonseed oil mills	440	22	2	20	418	418	-	6,657	10	10
2092	Soybean oil mills	272	20	7	13	263	252	11	5,373	10	9
2093	Vegetable oil mills, n.e.c	66	3	(Z)	3	62	62	-	4,864	20	21
2094	Grease and tallow	252	21	8	13	236	231	5	2,976	17	18
2096	Shortening and cooking oils	167	30	18	12	150	137	13	1,771	1	1
2097	Manufactured ice	374	38	5	33	337	336	1	5,115	14	15
2098	Macaroni and spaghetti	69	2	1	1	68	68	-	1,446	20	20
2099	Food preparations, n.e.c	374	50	20	30	333	324	9	714	4	5
21	Tobacco products	295	82	68	14	279	213	66	438	2	2
2111	Cigarettes	141	68	63	5	136	73	64	444	1	1
2121	Cigars	23	(Z)	(Z)	(Z)	22	22	-	114	3	3
2131	Chewing and smoking tobacco	24	4	4	(Z)	23	20	3	684	20	21
2141	Tobacco stemming and redrying	107	9	1	8	98	98	-	901	1	1
22	Textile mill products	5,043	646	519	127	4,667	4,397	270	643	1	1
2211	Weaving mills, cotton	1,737	244	198	46	1,589	1,494	96	834	1	1
2221	Weaving mills, synthetics	512	89	83	6	441	423	18	688	3	4
2231	Weaving, finishing mills, wool	296	38	25	13	279	258	21	670	4	3
2241	Narrow fabric mills	63	3	2	1	60	59	(Z)	279	8	8

See footnotes at end of table.

TABLE 3. Horsepower of Power Equipment in Manufacturing Industries, by Major Industry Groups and Industries: 1962--Continued

Code	Industry group and industry	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
		A	B	C	D	E	F	G	H	A	E
22	Textile mill products--Continued										
225	Knitting mills	377	11	7	5	366	365	1	191	3	3
2251	Full-fashioned hosiery mills	31	1	1	(Z)	31	30	(Z)	222	9	9
2252	Seamless hosiery mills	118	4	2	2	114	113	(Z)	148	5	5
2253	Knit outerwear mills	92	1	(Z)	1	90	90	(Z)	155	8	8
2254	Knit underwear mills	42	1	(Z)	1	41	41	-	175	2	2
2256	Knit fabric mills	89	4	3	1	85	85	(Z)	507	8	8
226	Textile finishing, except wool	519	121	110	12	465	397	67	873	6	6
2261	Finishing plants, cotton	352	108	100	8	308	244	64	976	4	4
2262	Finishing plants, synthetics	108	9	7	2	102	99	3	717	22	23
2269	Finishing plants, n.e.c	59	4	3	1	55	55	-	711	18	19
227	Floor covering mills	148	45	25	20	116	103	12	516	4	3
2271	Woven carpets and rugs	76	29	22	7	57	47	10	656	3	2
2272	Tufted carpets and rugs	65	14	2	12	53	51	2	444	8	6
228	Yarn and thread mills	877	50	42	8	869	827	42	914	2	2
2281	Yarn mills, except wool	587	20	19	1	579	567	11	1,014	2	2
2282	Throwing and winding mills	64	5	3	2	60	60	1	560	6	6
2283	Wool yarn mills	120	7	5	2	114	113	1	705	8	9
2284	Thread mills	105	18	15	3	116	87	29	1,098	5	4
229	Miscellaneous textile goods	515	44	29	15	482	471	11	954	5	5
2291	Felt goods, n.e.c	36	6	2	4	31	30	(Z)	1,063	8	9
2293	Padding and upholstery filling	46	2	1	1	44	44	-	754	12	12
2295	Coated fabric, not rubberized	128	15	12	3	124	113	10	1,407	4	4
2296	Tire cord and fabric	123	3	-	3	120	120	-	1,355	1	1
2297	Scouring and combing plants	43	3	(Z)	3	40	40	(Z)	856	6	5
2298	Cordage and twine	42	1	(Z)	1	41	41	-	565	2	2
2299	Textile goods, n.e.c	31	1	(Z)	1	30	30	-	555	13	14
23	Apparel and related products	250	30	16	14	223	220	3	23	4	5
2311	Men's and boys' suits and coats	25	3	2	1	22	22	(Z)	23	8	7
232	Men's and boys' furnishings	49	3	2	1	45	45	(Z)	18	8	8
233	Women's and misses' outerwear	40	1	1	(Z)	38	38	-	13	20	19
234	Women's undergarments	23	6	5	1	20	17	3	24	5	5
235	Millinery, hats, and caps	16	8	3	5	9	8	(Z)	51	7	12
236	Children's outerwear	11	-	-	-	11	11	-	16	19	19
238	Miscellaneous apparel	13	1	1	(Z)	12	12	-	22	15	15
239	Fabricated textiles, n.e.c	72	7	2	5	66	66	-	58	6	7
24	Lumber and wood products	7,710	3,196	920	2,276	5,000	4,515	485	1,572	2	2
2411	Logging camps and contractors	1,060	854	66	788	229	206	23	1,673	7	11
242	Sawmills and planing mills	4,131	1,888	724	1,164	2,636	2,242	394	1,861	3	3
2421	Sawmills and planing mills	3,856	1,799	674	1,125	2,418	2,057	362	2,000	3	3
2426	Hardwood dimension and flooring	219	74	44	30	175	144	31	968	7	8
243	Millwork and related products	1,568	250	82	168	1,368	1,318	50	21,95	3	3
2431	Millwork plants	686	48	15	33	646	637	9	1,342	3	3
2432	Veneer and plywood plants	810	178	63	115	673	632	41	1,336	4	6
2433	Prefabricated wood products	72	25	5	20	49	48	1	772	8	9
244	Wooden containers	362	40	11	29	333	322	11	1,147	6	6
2441	Nailed wooden boxes and shook	219	21	6	15	201	197	4	1,338	8	8
2442	Wirebound boxes and crates	104	11	1	10	96	93	3	1,205	8	7
2443	Veneer and plywood containers	21	2	(Z)	2	19	19	-	553	24	26
2445	Cooperage	18	5	3	2	16	13	3	652	3	3
249	Miscellaneous wood products	590	163	37	126	433	427	7	1,134	5	4
2491	Wood preserving	160	76	7	69	84	84	1	1,751	15	12
2499	Wood products, n.e.c	430	87	31	56	349	343	6	1,002	5	4
25	Furniture and fixtures	1,265	140	63	77	1,147	1,125	22	412	3	2
251	Household furniture	902	106	60	46	817	796	22	398	3	3
2511	Wood furniture not upholstered	577	84	54	30	513	493	20	481	4	3
2512	Wood furniture, upholstered	133	6	4	2	128	127	(Z)	231	6	6
2514	Metal household furniture	94	6	2	4	89	89	1	386	5	5
2515	Mattresses and bedsprings	81	10	(Z)	10	71	71	(Z)	339	16	14
252	Office furniture	97	8	1	7	89	89	(Z)	474	5	3
2521	Wood office furniture	27	4	1	3	23	23	(Z)	498	16	8
2522	Metal office furniture	70	5	1	4	66	66	(Z)	466	2	2

See footnotes at end of table.

TABLE 3. Horsepower of Power Equipment in Manufacturing Industries, by Major Industry Groups and Industries: 1962--Continued

Code	Industry group and industry	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
		A	B	C	D	E	F	G	H	A	E
25	Furniture and fixtures--Continued										
2531	Public building furniture	79	6	(Z)	6	73	73	-	548	10	11
254	Partitions and fixtures	130	18	1	17	111	111	-	409	6	7
259	Furniture and fixtures, n.e.c	59	1	(Z)	1	56	56	(Z)	422	11	11
2591	Venetian blinds and shades	28	1	(Z)	1	26	26	-	355	13	14
599	Furniture and fixtures, n.e.c	30	(Z)	(Z)	(Z)	30	30	(Z)	510	17	17
26	Paper and allied products	12,477	6,274	5,254	1,020	12,697	6,204	6,493	2,691	1	1
2611	Pulp mills	1,127	514	445	69	1,168	613	555	10,188	1	1
2621	Paper mills, except building	5,838	3,161	2,628	533	6,239	2,677	3,562	5,370	1	1
2631	Paperboard mills	2,868	1,905	1,659	246	2,817	963	1,854	6,088	1	1
2661	Building paper and board mills	727	197	169	28	678	530	148	4,191	2	2
264	Paper and paperboard products	978	275	230	45	1,043	703	340	779	2	2
2641	Paper coating and glazing	366	185	173	12	464	181	284	1,643	2	1
2642	Envelopes	57	(Z)	(Z)	(Z)	57	57	-	377	18	17
2643	Bags, except textile bags	161	18	8	10	153	143	10	491	3	3
2645	Die cut paper and board	64	15	13	2	50	48	1	592	15	20
2646	Pressed and molded pulp goods	77	10	5	5	69	67	2	2,406	6	5
2649	Paper and board products, n.e.c	249	46	31	15	246	203	43	626	2	2
265	Paperboard containers and boxes	939	221	123	98	752	719	34	610	1	2
2651	Folding paperboard boxes	171	25	11	14	147	145	2	464	3	3
2652	Set-up paperboard boxes	33	(Z)	(Z)	(Z)	33	33	-	190	13	13
2653	Corrugated shipping containers	490	102	32	70	392	388	4	769	2	2
2654	Sanitary food containers	170	49	39	10	136	122	15	658	2	2
2655	Fiber cans, tubes, drums, etc	75	45	41	4	43	30	13	736	3	5
27	Printing and publishing	1,746	44	25	19	1,705	1,702	4	309	4	4
2711	Newspapers	614	16	8	8	600	599	(Z)	376	6	6
2721	Periodicals	87	4	3	1	83	83	(Z)	717	11	11
273	Books	101	2	(Z)	2	98	98	-	248	6	6
2731	Books, publishing and printing	50	(Z)	(Z)	(Z)	49	49	-	414	8	8
2732	Book printing	51	2	(Z)	2	49	49	-	178	9	10
2741	Miscellaneous publishing	21	(Z)	-	(Z)	21	21	-	222	12	12
275	Commercial printing	680	18	11	6	663	662	1	285	6	6
2751	Printing: Letterpress	408	9	4	5	399	399	-	268	8	9
2752	Printing: Lithographic	254	9	7	2	246	245	1	320	8	8
2761	Manifold business forms	55	1	(Z)	1	54	54	-	288	19	19
2771	Greeting cards	23	1	-	1	22	22	-	149	32	32
278	Bookbinding and related work	70	2	1	1	69	68	1	174	30	31
279	Printing trades services	95	1	1	(Z)	94	94	(Z)	351	20	20
28	Chemicals and allied products	20,553	8,725	5,047	3,678	14,937	11,829	3,108	4,373	1	1
281	Basic chemicals	14,616	6,929	3,977	2,952	9,893	7,686	2,207	9,363	1	1
2812	Alkalies and chlorine	1,335	1,026	792	234	660	309	351	9,904	1	1
2813	Industrial gases	998	210	62	148	856	788	68	17,679	2	3
2814	Cyclic (coal tar) crudes	39	10	1	9	29	29	-	2,671	1	1
2815	Intermediate coal tar products	689	281	76	205	483	408	75	4,090	2	3
2816	Inorganic pigments	282	84	48	36	244	199	45	3,233	7	8
2818	Organic chemicals, n.e.c	4,431	2,951	1,563	1,388	2,298	1,480	818	7,890	1	1
2819	Inorganic chemicals, n.e.c	6,841	2,366	1,434	932	5,324	4,474	850	12,715	1	1
282	Fibers, plastics, rubbers	2,525	1,117	794	321	2,086	1,410	676	2,582	1	1
2821	Plastics materials	1,051	223	135	88	953	829	124	2,662	2	2
2822	Synthetic rubber	352	70	1	69	282	282	-	4,547	1	1
2823	Cellulosic man-made fibers	642	536	452	84	499	107	393	2,351	1	1
2824	Organic fibers, noncellulosic	480	288	207	81	352	192	160	2,064	1	1
283	Drugs	683	108	46	61	625	576	50	1,171	2	2
2831	Biological products	13	2	1	1	12	12	-	340	14	14
2833	Medicinals and botanicals	174	63	31	32	148	111	37	3,057	2	5
2834	Pharmaceutical preparations	495	43	15	28	465	452	13	1,015	3	3
284	Cleaning and toilet goods	505	113	61	53	444	392	52	964	3	2
2841	Soap and other detergents	295	101	54	47	244	194	51	1,507	4	1
2842	Polishes and sanitation goods	112	5	3	2	108	106	2	1,081	4	3
2843	Surface active agents	29	4	2	2	26	26	(Z)	1,823	10	11
2844	Toilet preparations	70	3	1	2	66	66	-	335	10	11

See footnotes at end of table.

TABLE 3. Horsepower of Power Equipment in Manufacturing Industries, by Major Industry Groups and Industries: 1962--Continued

Code	Industry group and industry	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
		A	B	C	D	E	F	G	H	A	E
28	Chemicals and allied products--Continued										
285	Paints and varnishes	442	35	18	17	410	407	3	1,368	7	8
2851	Paints and varnishes	418	35	18	17	386	383	3	1,336	6	7
2861	Gum and wood chemicals	104	46	27	18	83	58	25	2,107	16	18
287	Agricultural chemicals	847	190	43	146	696	658	38	2,906	2	2
2871	Fertilizers	} 756	163	30	133	623	594	30	3,144	1	2
2872	Fertilizers, mixing only										
2873	Agricultural pesticides	} 91	27	14	13	72	64	8	1,784	6	5
2879	Agricultural chemicals, n.e.c.										
289	Other chemical products	831	188	80	109	700	642	58	2,131	3	3
2891	Glue and gelatin	106	29	19	10	95	77	17	2,268	9	10
2892	Explosives	305	78	11	67	230	226	3	2,830	1	1
2893	Printing ink	54	2	1	1	52	52	-	946	10	10
2894	Fatty acids	32	4	3	1	28	28	-	3,333	1	1
2895	Carbon black	113	12	6	6	105	100	5	4,618	1	1
2899	Chemical preparations, n.e.c.	221	63	39	24	191	158	33	1,531	9	8
29	Petroleum and coal products	9,916	6,102	1,061	5,041	5,006	3,814	1,193	9,016	1	1
2911	Petroleum refining	9,385	5,999	1,021	4,978	4,569	3,386	1,183	10,688	1	1
295	Paving and roofing materials	451	90	33	57	371	361	10	2,874	6	6
2951	Paving mixtures and blocks	257	48	13	35	211	209	2	4,159	9	10
2952	Asphalt felts and coatings	194	42	20	22	160	152	7	2,039	3	4
299	Petroleum and coal products, n.e.c.	80	13	7	6	67	67	-	1,233	12	9
2992	Lubricating oils and greases	47	9	6	3	38	38	-	1,175	19	14
2999	Petroleum and coal products, n.e.c.	33	4	1	3	29	29	-	1,326	11	12
30	Rubber and plastics products, n.e.c.	3,549	404	274	130	3,383	3,145	237	1,131	2	2
3011	Tires and inner tubes	1,171	236	193	43	1,124	935	189	1,733	1	1
3021	Rubber footwear	82	5	2	3	78	76	2	338	1	1
3031	Reclaimed rubber	127	18	17	1	108	108	(Z)	7,475	8	8
3069	Fabricated rubber products, n.e.c.	1,118	90	46	44	1,071	1,027	44	1,154	4	5
3079	Plastics products, n.e.c.	1,052	53	14	39	1,001	998	3	853	3	3
31	Leather and leather products	587	84	68	16	536	503	33	191	2	3
3111	Leather tanning and finishing	280	71	59	12	240	209	32	1,026	3	3
3121	Industrial leather belting	12	3	-	3	10	10	-	480	23	13
3131	Footwear cut stock	29	(Z)	(Z)	(Z)	29	29	-	190	19	19
314	Footwear, except rubber	196	8	8	(Z)	190	188	1	95	4	4
3141	Footwear, except rubber	185	7	7	(Z)	179	178	1	95	4	4
3142	House slippers	11	1	1	-	11	11	-	104	16	17
3151	Leather gloves	3	-	-	-	3	3	-	55	19	19
3161	Luggage	25	(Z)	(Z)	(Z)	25	25	-	184	15	16
317	Purses and small leather goods	36	1	1	(Z)	35	34	(Z)	108	7	8
3171	Handbags and purses	20	(Z)	-	(Z)	20	20	-	92	12	12
3172	Small leather goods	15	1	1	(Z)	14	14	-	130	8	8
3199	Leather goods, n.e.c.	6	-	-	-	6	6	-	142	25	25
32	Stone, clay and glass products	8,716	2,152	789	1,363	7,189	6,564	625	1,879	1	1
3211	Flat glass	338	84	66	18	287	255	32	1,769	1	1
322	Pressed and blown glassware	640	77	16	61	566	562	4	740	1	1
3221	Glass containers	438	60	11	49	382	378	4	821	1	1
3229	Pressed and blown glass, n.e.c.	202	17	5	12	185	185	-	610	1	1
3231	Products of purchased glass	130	23	19	4	114	107	7	567	16	13
3241	Cement, hydraulic	2,842	757	526	231	2,611	2,085	526	9,570	1	1
325	Structural clay products	834	139	14	125	698	695	3	1,377	3	3
3251	Brick and structural tile	482	91	6	85	392	391	1	1,674	5	4
3253	Ceramic wall and floor tile	56	9	2	7	48	47	1	523	12	13
3255	Clay refractories	156	12	4	8	145	144	1	1,480	3	3
3259	Structural clay products, n.e.c.	140	27	2	25	113	113	(Z)	1,330	5	3

See footnotes at end of table.

TABLE 3. Horsepower of Power Equipment in Manufacturing Industries, by Major Industry Groups and Industries: 1962--Continued

Code	Industry group and industry	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
		A	B	C	D	E	F	G	H	A	E
32	Stone, clay and glass products--Continued										
326	Pottery and related products	148	18	7	11	136	130	6	420	4	4
3261	Vitreous plumbing fixtures	46	8	2	6	38	38	(Z)	626	1	1
3262	Vitreous china food utensils	14	2	2	-	14	11	2	254	1	1
3263	Earthenware food utensils	14	(Z)	(Z)	(Z)	14	14	-	235	1	1
3264	Porcelain electrical supplies	51	4	1	3	50	46	4	635	1	1
3269	Pottery products, n.e.c.	23	3	1	2	20	20	-	275	25	24
327	Concrete and plaster products	2,162	637	49	587	1,528	1,526	2	1,821	4	4
3271	Concrete block and brick	319	104	21	83	216	215	(Z)	1,973	9	8
3272	Concrete products	410	156	14	142	255	255	1	1,042	5	5
3273	Ready-mixed concrete	776	249	11	238	528	528	(Z)	1,615	10	10
3274	Lime	243	35	1	34	208	208	-	4,296	6	5
3275	Gypsum products	414	93	3	90	322	321	(Z)	4,349	2	2
3281	Cut stone and stone products	276	58	16	42	229	218	11	1,494	7	7
329	Nonmetallic minerals, n.e.c.	1,346	361	76	285	1,020	986	34	1,851	4	4
3291	Abrasive products	160	17	13	4	158	143	15	885	6	5
3292	Asbestos products	263	30	13	17	245	232	12	1,485	1	1
3293	Gaskets and insulations	93	23	21	2	77	70	7	847	8	11
3295	Minerals: Ground or treated	534	252	26	225	282	282	-	8,171	9	11
3296	Mineral wool	121	11	2	9	110	110	(Z)	1,019	4	5
3297	Nonclay refractories	133	23	(Z)	23	110	110	-	2,309	1	1
33	Primary metal industries	33,304	11,115	7,109	4,006	28,595	22,189	6,406	3,614	1	1
331	Steel rolling and finishing	22,657	8,018	4,690	3,329	20,553	14,638	5,916	4,932	1	1
3312	Blast furnaces and steel mills	20,455	7,035	3,810	3,225	19,166	13,420	5,747	5,030	1	1
3313	Electrometallurgical products	1,041	891	851	40	295	151	144	12,475	1	1
3315	Steel wire drawing	240	29	5	24	213	211	3	1,549	4	4
3316	Cold finishing of steel shapes	402	20	12	8	387	381	6	4,302	4	3
3317	Steel pipe and tubes	519	43	12	31	491	475	16	2,656	9	9
332	Iron and steel foundries	1,836	176	49	128	1,684	1,660	24	1,098	2	3
3321	Gray iron foundries	1,019	110	30	80	921	909	12	991	4	4
3322	Malleable iron foundries	222	30	7	23	196	191	5	1,160	2	1
3323	Steel foundries	595	36	11	25	567	559	7	1,316	1	4
333	Primary nonferrous metal	3,501	2,358	2,186	172	1,500	1,144	356	8,959	1	1
3331	Primary copper	538	304	219	85	319	234	85	4,205	1	1
3332	Primary lead	63	11	3	8	54	52	2	3,063	1	1
3333	Primary zinc	458	194	174	20	305	264	41	6,645	1	1
3334	Primary aluminum	2,339	1,843	1,787	56	724	497	228	17,102	1	1
3339	Primary nonferrous metals, n.e.c.	103	6	3	3	97	97	(Z)	2,817	1	1
3341	Secondary nonferrous metals	139	42	8	34	97	97	-	1,119	5	5
335	Nonferrous rolling and drawing	3,943	418	151	269	3,628	3,524	103	2,924	1	1
3351	Copper rolling and drawing	992	141	106	35	948	851	96	3,061	1	1
3352	Aluminum rolling and drawing	2,007	209	12	197	1,802	1,797	5	4,690	1	2
3356	Rolling and drawing, n.e.c.	315	19	7	12	298	296	2	2,438	2	3
3357	Nonferrous wire drawing, etc.	629	49	25	24	580	580	-	1,346	1	1
336	Nonferrous foundries	427	37	6	31	391	390	-	705	3	3
3361	Aluminum castings	211	17	1	16	194	194	-	645	4	4
3362	Brass, bronze, copper castings	119	15	2	13	105	105	-	813	7	8
3369	Nonferrous castings, n.e.c.	97	5	3	2	92	92	-	734	8	8
339	Primary metal industries, n.e.c.	801	64	20	44	743	737	6	1,668	5	5
3391	Iron and steel forgings	572	53	19	34	525	519	6	1,764	5	6
3392	Nonferrous forgings	126	5	1	4	122	122	-	2,111	17	17
3399	Primary metal industries, n.e.c.	103	6	(Z)	6	97	97	-	1,070	15	15
34	Fabricated metal products	6,974	723	188	535	6,305	6,251	53	836	1	1
3411	Metal cans	364	86	6	80	281	278	3	785	1	1
342	Cutlery, hand tools, hardware	702	60	26	34	652	642	10	646	4	4
3421	Cutlery	48	6	5	1	43	42	2	507	8	9
3423	Edge tools	204	18	4	14	191	186	6	783	9	8
3425	Hand saws and saw blades	27	2	-	2	25	25	-	682	4	4
3429	Hardware, n.e.c.	424	33	16	17	393	390	3	613	5	5

See footnotes at end of table.

TABLE 3. Horsepower of Power Equipment in Manufacturing Industries, by Major Industry Groups and Industries: 1962--Continued

Code	Industry group and industry	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
		A	B	C	D	E	F	G	H	A	E
34	Fabricated metal products--Continued										
343	Plumbing and nonelectric heating	415	60	15	45	369	354	14	833	3	3
3431	Plumbing fixtures	132	21	12	9	125	110	14	1,740	4	5
3432	Plumbing fittings, brass goods	70	9	(Z)	9	61	61	-	625	8	9
3433	Nonelectric heating equipment	213	30	3	27	183	183	-	686	3	4
344	Structural metal products	2,115	243	50	193	1,879	1,872	6	899	2	2
3441	Fabricated structural steel	576	69	12	57	507	507	(Z)	975	3	2
3442	Metal doors, sash, and trim	231	38	2	36	193	193	-	533	3	3
3443	Boiler shop products	739	66	19	47	677	673	4	1,434	4	3
3444	Sheet metal work	286	35	11	24	252	251	1	578	3	3
3449	Miscellaneous metal work, n.e.c	283	34	5	29	250	249	(Z)	887	3	3
345	Screw machine products and bolts	657	33	11	22	625	624	1	894	6	6
3451	Screw machine products	230	13	4	9	217	217	-	768	16	16
3452	Bolts, nuts, washers, and rivets	426	19	6	13	408	407	1	979	3	3
3461	Metal stampings	887	79	30	49	821	808	13	820	1	1
347	Metal services, n.e.c	488	60	24	36	430	428	1	843	7	7
3471	Plating and polishing	360	49	20	29	312	311	(Z)	865	7	7
3479	Metal coating, engraving, etc	128	11	4	7	118	117	1	786	15	15
3481	Fabricated wire products, n.e.c	259	23	2	21	236	236	-	535	4	4
349	Fabricated metal products, n.e.c	1,088	79	24	55	1,013	1,009	4	1,027	3	3
3491	Metal barrels, drums and pails	125	12	3	9	113	113	-	1,637	9	9
3492	Safes and vaults	17	1	-	1	16	16	-	821	3	3
3493	Steel springs	57	8	4	4	48	48	-	1,038	3	3
3494	Valves and pipe fittings	584	37	11	26	549	546	3	1,011	4	4
3496	Collapsible tubes	9	-	-	-	9	9	-	248	1	1
3498	Fabricated pipe and fittings	93	4	1	3	90	90	-	1,069	10	10
3499	Fabricated metal products, n.e.c	178	15	4	11	165	163	1	975	6	6
35	Machinery, except electrical	8,643	1,030	476	554	7,979	7,610	369	836	1	1
351	Engines and turbines	737	231	164	68	642	505	138	1,210	1	1
3511	Steam engines and turbines	374	164	127	37	276	209	67	1,772	1	1
3519	Internal combustion engines	363	67	36	31	366	296	70	912	1	1
3522	Farm machinery and equipment	669	186	104	82	607	483	124	867	4	4
353	Construction and like equipment	1,789	191	41	151	1,615	1,597	18	1,310	2	2
3531	Construction machinery	933	89	23	66	850	844	6	1,308	1	1
3532	Mining machinery and equipment	221	20	8	12	211	202	9	1,865	13	13
3533	Oil field machines and equipment	298	30	3	27	268	268	-	1,603	6	7
3534	Elevators and moving stairways	57	6	4	2	54	51	3	1,039	10	10
3535	Conveyors	114	12	1	11	102	102	-	897	5	4
3536	Hoists, cranes, and monorails	92	19	1	18	73	73	-	1,595	9	9
3537	Industrial trucks and tractors	73	15	(Z)	15	58	58	-	674	7	9
354	Metalworking machinery	1,490	78	47	31	1,422	1,411	11	731	4	4
3541	Metal-cutting machine tools	351	15	10	5	340	337	4	894	7	7
3542	Metal-forming machine tools	177	5	1	4	172	172	-	961	5	6
3544	Special dies and tools	466	35	20	15	431	431	-	554	10	9
3545	Machine tool accessories	293	11	7	4	285	282	3	821	5	5
3548	Metalworking machinery, n.e.c	203	13	9	4	193	190	4	771	3	3
355	Special industry machinery	871	76	42	34	826	794	32	713	3	4
3551	Food products machinery	138	8	3	5	130	130	(Z)	636	5	5
3552	Textile machinery	182	23	18	5	178	159	19	660	5	5
3553	Woodworking machinery	44	3	1	2	42	42	-	484	12	13
3554	Paper industries machinery	122	11	2	9	112	112	-	920	14	15
3555	Printing trades machinery	109	3	2	1	107	106	1	659	14	14
3559	Special industry machinery, n.e.c	275	28	16	12	257	246	11	809	5	5
356	General industrial machinery	1,440	127	29	100	1,323	1,311	12	924	1	1
3561	Pumps and compressors	442	85	18	67	367	357	10	1,158	2	2
3562	Ball and roller bearings	407	5	(Z)	5	401	401	-	959	1	1
3564	Blowers and fans	84	17	1	16	68	68	(Z)	854	14	17
3565	Industrial patterns	32	(Z)	(Z)	-	31	31	-	373	16	16
3566	Power transmission equipment	304	9	2	7	296	296	(Z)	968	3	3
3567	Industrial furnaces and ovens	40	2	1	1	38	38	-	648	12	12
3569	General industry machinery, n.e.c	130	9	5	4	123	120	2	678	5	5
357	Office machines, n.e.c	308	49	29	20	289	259	30	342	1	1
3571	Computing and related machines	202	34	28	6	198	168	30	339	1	1
3572	Typewriters	38	9	(Z)	9	29	29	-	270	1	1
3576	Scales and balances	15	1	1	(Z)	14	14	(Z)	444	1	1
3579	Office machines, n.e.c	53	5	(Z)	5	48	48	-	401	6	6

See footnotes at end of table.

TABLE 3. Horsepower of Power Equipment in Manufacturing Industries, by Major Industry Groups and Industries: 1962--Continued

Code	Industry group and industry	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
		A	B	C	D	E	F	G	H	A	E
35	Machinery, except electrical--Continued										
358	Service industry machines	480	45	9	36	439	435	4	660	1	2
3581	Automatic vending machines	42	2	-	2	40	40	-	443	13	14
3582	Commercial laundry equipment	25	5	3	2	23	19	4	578	16	17
3584	Vacuum cleaners, industrial	2	(Z)	-	(Z)	2	2	-	673	1	1
3585	Refrigeration machinery	340	36	5	31	304	304	-	760	1	1
3586	Measuring and dispensing pumps	29	(Z)	-	(Z)	29	29	-	731	1	1
3589	Service industry machines, n.e.c.	42	1	(Z)	1	40	40	-	423	16	16
3599	Machine shops	857	43	13	30	816	815	1	749	6	5
36	Electrical machinery	4,813	764	294	470	4,200	4,049	151	471	1	1
361	Electric distribution products	642	110	99	11	544	532	12	581	1	1
3611	Electric measuring instruments	80	1	(Z)	1	78	78	-	188	6	6
3612	Transformers	428	96	92	4	336	331	4	1,741	1	1
3613	Switchgear and switchboards	134	12	7	5	130	123	8	309	3	3
362	Electric industrial apparatus	856	71	33	38	824	785	39	720	1	1
3621	Motors and generators	502	44	23	21	497	458	39	742	1	1
3622	Industrial controls	59	2	1	1	57	57	-	270	5	5
3623	Welding apparatus	51	2	1	1	49	49	(Z)	783	8	8
3624	Carbon and graphite products	146	22	7	15	124	124	-	2,013	1	1
3629	Electric industrial products, n.e.c.	97	1	1	(Z)	96	96	-	621	4	4
363	Household appliances	705	57	5	51	650	649	1	636	2	2
3631	Household cooking equipment	120	13	1	12	108	108	(Z)	848	1	1
3632	Household refrigerators	222	13	(Z)	13	208	208	-	637	1	1
3633	Household laundry equipment	132	20	2	18	112	111	1	847	1	1
3634	Electric housewares and fans	106	4	1	3	102	102	-	380	8	8
3635	Household vacuum cleaners	22	2	(Z)	2	20	20	-	548	1	1
3636	Sewing machines	32	(Z)	-	(Z)	32	32	-	705	7	7
3639	Household appliances, n.e.c.	72	5	1	4	67	67	-	735	8	9
364	Lighting and wiring devices	425	21	4	17	404	404	-	381	4	4
3641	Electric lamps	67	3	(Z)	3	64	64	-	356	1	1
3642	Lighting fixtures	172	9	2	7	163	163	-	418	3	3
3643	Current carrying devices	71	2	1	1	70	70	-	195	11	11
3644	Noncurrent carrying devices	115	7	1	6	107	107	-	758	11	12
365	Radio, TV, receiving equipment	207	21	17	4	186	186	(Z)	283	11	4
3651	Radios and TV receiving sets	182	21	17	4	162	162	(Z)	276	12	5
3652	Phonograph records	25	(Z)	-	(Z)	24	24	-	354	6	6
366	Communication equipment	1,167	401	100	301	854	766	88	543	1	1
3661	Telephone; telegraph apparatus	222	91	76	15	209	130	78	326	1	1
3662	Radio, TV communication equipment	946	310	24	286	645	636	10	645	1	1
367	Electronic components	477	48	24	24	429	429	(Z)	225	2	2
3671	Electron tubes, receiving type	48	1	1	(Z)	47	47	-	224	4	4
3672	Cathode ray picture tubes	17	1	1	(Z)	15	15	-	313	5	6
3673	Electron tubes, transmitting	40	1	1	(Z)	39	39	-	263	1	1
3679	Electronic components, n.e.c.	372	44	21	23	328	328	(Z)	219	3	3
369	Electrical products, n.e.c.	333	35	12	23	309	299	10	478	3	3
3691	Storage batteries	97	17	6	11	81	80	1	774	3	4
3692	Primary batteries, dry and wet	19	(Z)	(Z)	(Z)	18	18	-	302	3	3
3693	X-ray and therapeutic apparatus	15	(Z)	(Z)	(Z)	15	15	-	393	9	9
3694	Engine electrical equipment	173	15	5	10	166	158	9	452	5	5
3699	Electrical products, n.e.c.	30	1	(Z)	1	28	28	-	341	15	15
37	Transportation equipment	10,699	1,379	301	1,078	9,540	9,320	220	953	1	1
371	Motor vehicles and equipment	6,051	721	123	598	5,420	5,330	90	1,107	1	1
3713	Truck and bus bodies	81	6	2	4	75	75	-	411	7	8
3715	Truck trailers	120	26	11	15	95	95	-	758	9	10
3717	Motor vehicles and parts	5,851	690	111	579	5,251	5,161	90	1,144	1	1
372	Aircraft and parts	2,975	333	69	264	2,661	2,642	19	741	1	1
3721	Aircraft	971	134	43	91	851	837	15	538	1	1
3722	Aircraft engines and parts	1,168	129	19	110	1,042	1,039	3	1,133	1	1
3723	Aircraft propellers and parts	59	1	(Z)	1	58	58	(Z)	1,037	1	1
3729	Aircraft equipment, n.e.c.	778	70	7	63	709	708	-	692	3	2
373	Ships and boats	1,059	210	59	151	857	848	9	938	2	2
3731	Ship building and repairing	981	195	55	140	796	786	9	1,043	3	2
3732	Boat building and repairing	77	15	4	11	62	62	-	409	9	9

See footnotes at end of table.

TABLE 3. Horsepower of Power Equipment in Manufacturing Industries, by Major Industry Groups and Industries: 1962--Continued

Code	Industry group and industry	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
		A	B	C	D	E	F	G	H	A	E
37	Transportation equipment--Continued										
374	Railroad equipment	499	105	46	59	497	395	102	1,580	1	1
3741	Locomotives and parts	120	36	27	9	164	84	80	1,123	3	2
3742	Railroad and street cars	379	68	18	50	333	311	22	1,814	1	1
3751	Motorcycles, bicycles, and parts	55	3	-	3	53	53	-	752	3	3
379	Transportation equipment, n.e.c.	60	8	4	4	52	52	-	264	19	21
38	Instruments and related products	860	222	146	76	792	638	154	378	2	2
3811	Scientific instruments	136	11	8	3	125	125	(Z)	242	6	7
382	Mechanical measuring devices	221	13	4	9	209	207	2	368	4	4
3821	Mechanical measuring devices	161	10	4	6	152	150	2	390	5	5
3822	Automatic temperature controls	50	3	(Z)	3	47	47	-	266	2	2
3831	Optical instruments and lenses	12	1	(Z)	1	11	11	-	204	7	8
384	Medical instruments and supplies	93	5	1	4	88	88	(Z)	291	17	16
3841	Surgical and medical instruments	18	1	(Z)	1	17	17	-	195	14	14
3842	Surgical appliances and supplies	59	4	1	3	54	54	(Z)	335	26	25
3843	Dental equipment and supplies	17	(Z)	(Z)	(Z)	17	17	-	332	23	24
3851	Ophthalmic goods	45	15	15	(Z)	34	30	4	253	8	10
3861	Photographic equipment	318	169	112	57	296	149	147	894	2	2
387	Watches and clocks	45	7	6	2	39	37	1	224	7	8
3871	Watches and clocks	41	6	6	(Z)	35	34	1	227	8	9
3872	Watchcases	5	1	(Z)	1	3	3	-	249	9	13
39	Miscellaneous manufacturing	1,098	78	46	32	1,034	1,021	13	358	3	3
391	Jewelry and silverware	117	12	10	2	107	105	1	345	6	6
3911	Jewelry, precious metal	29	(Z)	(Z)	-	29	29	-	180	10	10
3912	Jewelers' findings and materials	18	(Z)	(Z)	(Z)	18	18	-	393	11	12
3914	Silverware and plated ware	68	11	9	2	58	57	1	590	9	10
3931	Musical instruments and parts	50	3	1	2	47	47	(Z)	271	14	15
394	Toys and sporting goods	310	16	5	11	296	294	2	347	8	8
3941	Games and toys, n.e.c.	131	4	1	3	128	128	-	334	10	10
3942	Dolls	22	-	-	-	23	22	-	130	13	13
3943	Children's vehicles	16	3	2	1	13	13	-	430	3	4
3949	Sporting and athletic goods, n.e.c.	141	10	2	8	132	131	2	479	14	14
395	Office supplies	99	5	2	3	94	94	-	459	8	8
3951	Pens and mechanical pencils	38	(Z)	(Z)	-	38	38	-	470	12	12
3952	Lead pencils and art goods	24	2	1	1	23	23	-	528	16	16
3953	Marking devices	13	(Z)	(Z)	(Z)	12	12	-	286	16	16
3955	Carbon paper and inked ribbons	24	4	1	3	20	20	-	544	19	22
396	Costume jewelry and notions	122	3	2	1	119	119	(Z)	273	6	6
3961	Costume jewelry	39	(Z)	(Z)	(Z)	38	38	-	211	12	12
3962	Artificial flowers	10	(Z)	-	(Z)	10	10	-	227	26	27
3963	Buttons	18	(Z)	-	(Z)	17	17	-	385	14	15
3964	Needles, pins, and fasteners	56	2	1	1	54	54	(Z)	327	8	8
398, 399	Miscellaneous manufactures	401	38	27	11	371	361	9	190	7	7
3981	Brooms and brushes	52	3	2	1	50	50	1	384	15	16
3982	Hard surface floor coverings	99	16	11	5	84	83	1	1,874	1	1
3983	Matches	17	3	2	1	14	10	4	316	1	1
3984	Candles	3	2	1	1	2	1	1	143	1	1
3987	Lamp shades	3	(Z)	-	(Z)	3	3	-	76	28	28
3988	Morticians' goods	63	9	8	1	56	54	2	463	10	9
3992	Furs, dressed and dyed	5	(Z)	-	(Z)	5	5	-	262	11	11
3993	Signs and advertising displays	92	2	1	1	89	89	(Z)	293	10	10
3999	Miscellaneous products, n.e.c.	67	3	1	2	64	64	-	329	9	9
19	Ordnance and accessories	1,117	235	155	80	1,013	882	131	995	1	1

Note: Detailed figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries whether or not separate figures are shown for the individual industries.

- Entry represents zero.
Z Less than half of the unit of measurement indicated.
[1]Excludes both the aggregate horsepower and the number of production workers for establishments located in Hawaii.

TABLE 4. Horsepower of Power Equipment in Manufacturing Industries, by Geographic Areas: 1962 and 1954

Division and State	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
		Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
	A	B	C	D	E	F	G	H	A	E
UNITED STATES, TOTAL.....1962...	151,498	45,770	24,097	21,673	126,783	105,728	21,054	1,249	1	1
1954[1]..	108,100	35,763	21,036	14,727	91,505	72,337	19,168	958	-	-
New England, total.....1962...	8,138	1,883	1,352	531	7,362	6,255	1,107	747	1	1
1954...	6,318	1,652	1,248	404	5,715	4,666	1,049	589	-	-
Maine.....1962...	1,231	686	496	190	1,102	545	557	1,426	2	2
1954...	999	538	409	129	889	461	428	1,130	-	-
New Hampshire.....1962...	480	150	124	26	389	330	58	732	3	3
1954...	419	120	33	87	335	299	36	645	-	-
Vermont.....1962...	290	60	30	30	247	230	17	1,055	6	6
1954...	193	45	31	14	173	148	25	694	-	-
Massachusetts.....1962...	3,309	572	445	127	2,962	2,737	225	638	2	2
1954...	2,579	577	483	94	2,299	2,002	297	536	-	-
Rhode Island.....1962...	594	59	38	21	572	535	37	642	8	8
1954...	425	66	57	9	411	359	52	427	-	-
Connecticut.....1962...	2,234	357	220	137	2,091	1,878	213	749	2	2
1954...	1,703	306	235	71	1,608	1,397	211	550	-	-
Middle Atlantic, total.....1962...	27,644	6,455	3,077	3,377	24,902	21,189	3,713	957	1	1
1954...	22,544	6,299	3,375	2,924	19,846	16,245	3,601	842	-	-
New York.....1962...	8,837	1,673	840	833	8,126	7,163	963	690	1	1
1954...	6,495	1,370	681	689	5,922	5,125	797	565	-	-
New Jersey.....1962...	4,712	928	474	454	4,158	3,784	374	832	1	1
1954...	3,605	955	671	284	3,232	2,650	582	677	-	-
Pennsylvania.....1962...	14,095	3,853	1,763	2,090	12,617	10,241	2,376	1,353	1	1
1954...	12,444	3,974	2,023	1,951	10,692	8,470	2,222	1,260	-	-
East North Central, total.....1962...	42,229	10,613	6,080	4,532	37,346	31,615	5,731	1,324	1	1
1954...	32,814	9,382	5,739	3,643	29,323	23,432	5,891	970	-	-
Ohio.....1962...	13,962	3,572	2,001	1,571	11,645	10,390	1,255	1,585	1	1
1954...	11,400	3,621	1,880	1,741	9,674	7,779	1,895	1,184	-	-
Indiana.....1962...	7,060	1,862	974	888	6,827	5,198	1,629	1,560	1	1
1954...	4,911	1,602	967	635	4,937	3,309	1,628	1,107	-	-
Illinois.....1962...	8,637	1,957	970	987	7,810	6,681	1,129	1,031	1	1
1954...	6,690	1,630	1,024	606	6,027	5,060	967	783	-	-
Michigan.....1962...	9,165	2,354	1,549	805	7,895	6,810	1,084	1,359	1	1
1954...	7,295	1,876	1,367	509	6,326	5,419	907	913	-	-
Wisconsin.....1962...	3,405	869	587	282	3,169	2,536	634	989	1	1
1954...	2,518	653	501	152	2,359	1,865	494	775	-	-
West North Central, total.....1962...	6,993	1,783	827	956	5,963	5,210	753	994	1	1
1954...	4,878	1,301	776	525	4,306	3,577	729	735	-	-
Minnesota.....1962...	1,626	481	279	202	1,409	1,145	265	1,004	3	3
1954...	1,071	356	251	105	919	715	204	756	-	-
Iowa.....1962...	1,585	396	198	198	1,408	1,188	220	1,270	2	3
1954...	906	256	186	70	887	650	237	760	-	-
Missouri.....1962...	2,053	462	216	246	1,716	1,590	125	753	2	2
1954...	1,660	309	209	100	1,500	1,351	149	657	-	-
North Dakota.....1962...	52	26	10	16	38	26	12	1,211	7	9
1954...	35	22	7	15	22	13	9	897	-	-
South Dakota.....1962...	114	21	3	18	94	92	2	1,057	19	22
1954...	42	4	2	2	40	38	2	500	-	-
Nebraska.....1962...	437	78	19	59	373	359	14	961	3	4
1954...	307	47	19	28	277	260	17	730	-	-
Kansas.....1962...	1,127	317	101	216	926	810	115	1,348	2	3
1954...	857	307	102	205	661	550	111	892	-	-
South Atlantic, total.....1962...	16,794	5,797	3,824	1,974	14,522	10,996	3,525	1,049	1	1
1954...	11,879	4,911	3,536	1,375	10,658	6,968	3,690	886	-	-
Delaware.....1962...	575	192	65	127	414	384	30	1,962	2	7
1954...	297	93	71	22	249	204	45	1,054	-	-
Maryland.....1962...	1,962	712	348	364	1,640	1,251	390	1,073	1	1
1954...	1,540	559	344	215	1,824	981	843	883	-	-
District of Columbia.....1962...	54	3	1	2	52	51	1	480	16	15
1954...	56	5	2	3	51	51	-	496	-	-

See footnotes at end of table.

TABLE 4. Horsepower of Power Equipment in Manufacturing Industries, by Geographic Areas: 1962 and 1954--Continued

Division and State	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
		Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
	A	B	C	D	E	F	G	H	A	E
South Atlantic--Continued										
Virginia.....1962...	2,378	1,025	654	371	1,920	1,354	566	1,003	2	2
1954...	1,624	761	598	163	1,374	863	511	882	-	-
West Virginia.....1962...	2,445	1,096	754	342	2,007	1,349	658	2,824	1	1
1954...	2,344	1,323	786	537	1,966	1,021	945	2,511	-	-
North Carolina.....1962...	2,736	563	362	204	2,492	2,170	322	634	2	2
1954...	2,096	672	554	118	1,742	1,424	318	582	-	-
South Carolina.....1962...	2,463	753	626	128	2,164	1,709	456	1,144	1	2
1954...	1,571	639	542	97	1,384	932	452	916	-	-
Georgia.....1962...	2,353	700	490	210	2,235	1,652	583	868	2	2
1954...	1,495	443	340	103	1,321	1,052	269	662	-	-
Florida.....1962...	1,828	752	524	228	1,597	1,076	520	1,346	2	1
1954...	856	416	299	117	747	440	307	932	-	-
East South Central, total.....1962...	10,844	2,740	1,787	953	9,410	8,104	1,305	1,602	1	1
1954...	6,874	1,768	1,126	642	5,917	5,106	811	1,312	-	-
Kentucky.....1962...	2,210	260	79	181	2,007	1,949	58	1,650	1	1
1954...	1,738	181	50	131	1,583	1,557	26	1,687	-	-
Tennessee.....1962...	4,549	1,234	945	289	3,761	3,314	447	1,819	1	1
1954...	2,523	743	571	172	2,083	1,780	303	1,341	-	-
Alabama.....1962...	3,120	951	627	324	2,788	2,169	619	1,623	1	1
1954...	2,043	615	364	251	1,747	1,428	319	1,194	-	-
Mississippi.....1962...	965	294	136	158	853	671	182	957	5	5
1954...	570	229	141	88	504	341	163	927	-	-
West South Central, total.....1962...	17,195	10,355	5,074	5,281	10,097	6,840	3,256	2,837	1	1
1954...	10,316	6,601	3,523	3,078	5,660	3,715	1,945	1,997	-	-
Arkansas.....1962...	1,200	600	452	148	977	600	377	1,228	3	4
1954...	757	448	296	152	514	309	205	1,212	-	-
Louisiana.....1962...	3,802	2,521	1,478	1,043	2,178	1,281	897	3,863	1	1
1954...	2,827	2,050	1,228	822	1,404	777	627	2,598	-	-
Oklahoma.....1962...	909	284	46	238	659	625	35	1,548	2	3
1954...	682	268	64	204	477	414	63	1,171	-	-
Texas.....1962...	11,284	6,950	3,097	3,852	6,282	4,334	1,947	3,212	1	1
1954...	6,050	3,835	1,935	1,900	3,265	2,215	1,050	2,106	-	-
Mountain, total.....1962...	3,430	1,343	592	751	2,573	2,087	486	1,787	2	2
1954...	2,194	937	483	454	1,765	1,257	508	1,581	-	-
Montana.....1962...	509	125	30	95	398	384	15	3,402	5	4
1954...	438	128	25	103	332	310	22	3,065	-	-
Idaho.....1962...	611	240	83	157	432	370	61	2,612	5	4
1954...	347	140	90	50	252	207	45	1,718	-	-
Wyoming.....1962...	169	99	15	84	85	70	15	3,531	14	11
1954...	110	69	16	53	101	41	60	2,398	-	-
Colorado.....1962...	656	213	151	62	596	443	153	948	6	6
1954...	385	163	117	46	312	222	90	834	-	-
New Mexico.....1962...	154	62	5	57	93	93	-	1,656	17	10
1954...	70	23	8	15	49	47	2	872	-	-
Arizona.....1962...	457	161	81	80	372	295	77	1,308	6	5
1954...	217	67	49	18	193	150	43	1,093	-	-
Utah.....1962...	614	304	103	201	470	309	161	1,966	2	2
1954...	474	263	110	153	450	211	239	2,236	-	-
Nevada.....1962...	261	138	123	15	128	123	5	6,369	2	4
1954...	153	84	68	16	76	69	7	3,457	-	-
Pacific (including Alaska and Hawaii), total.....1962...	18,230	4,801	1,482	3,319	14,606	13,429	1,177	1,544	1	1
1954...	10,283	2,912	1,230	1,682	8,315	7,371	944	1,026	-	-
Washington.....1962...	3,863	1,007	452	555	3,329	2,856	473	2,470	2	1
1954...	2,531	788	408	380	2,084	1,743	341	1,741	-	-
Oregon.....1962...	2,589	959	301	658	1,846	1,628	217	2,222	4	4
1954...	1,587	661	303	358	1,126	926	200	1,414	-	-
California.....1962...	11,334	2,533	516	2,016	9,128	8,801	327	1,277	1	1
1954...	5,933	1,279	389	890	4,927	4,654	273	821	-	-
Alaska.....1962...	103	88	73	15	88	15	73	2,332	19	13
1954...	37	30	19	11	21	7	14	1,048	-	-
Hawaii.....1962...	342	214	139	75	215	128	87	2,116	1	2
1954...	195	154	111	43	157	41	116	1,047	-	-

Note: Detailed figures may not add to totals because of independent rounding. No standard errors are shown for 1954 because these data are not subject to sampling variations (see text).

- Entry represents zero.

[1] Excludes data for power equipment for Major Industry Group 23, Apparel and Related Products (except 238) and for Industry Group 279, Printing Trade Service Industries.

TABLE 5. Horsepower of Power Equipment in Manufacturing Industries for States, by Major Industry Groups: 1962

Code	State and major industry group	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
		A	B	C	D	E	F	G	H	A	E
	UNITED STATES, TOTAL	151,498	45,770	24,097	21,673	126,783	105,728	21,054	1,249	1	1
	Alabama, total	3,120	951	627	324	2,788	2,169	619	1,623	1	1
20	Food and kindred products	150	6	1	5	144	144	(Z)	1,333	14	15
21	Tobacco products	1	-	-	-	1	1	-	115	1	1
22	Textile mill products	242	6	2	4	242	236	6	704	2	2
23	Apparel and related products	9	-	-	-	9	9	-	32	6	6
24	Lumber and wood products	186	61	8	53	127	124	2	972	12	15
25	Furniture and fixtures	8	(Z)	(Z)	(Z)	7	7	-	276	12	11
26	Paper and allied products	423	274	226	48	464	149	315	4,360	1	1
28	Chemicals and allied products	272	76	55	21	259	196	63	4,623	1	1
29	Petroleum and coal products	23	4	-	4	18	18	-	3,840	33	40
30	Rubber and plastics products, n.e.c.	110	3	-	3	106	106	-	2,136	1	1
32	Stone, clay and glass products	209	47	1	46	162	162	-	3,376	5	2
33	Primary metal industries	1,198	437	328	109	994	762	232	3,623	1	1
34	Fabricated metal products	89	11	1	10	80	79	1	905	4	3
35	Machinery, except electrical	35	5	-	5	30	30	-	1,054	14	16
36	Electrical machinery	54	1	(Z)	1	52	52	-	1,662	1	1
37	Transportation equipment	80	19	4	15	61	61	-	690	1	1
	Alaska	103	88	73	15	88	15	73	2,332	19	13
	Arizona, total	457	161	81	80	372	295	77	1,308	6	5
20	Food and kindred products	67	3	(Z)	3	64	64	-	1,995	18	19
24	Lumber and wood products	21	5	4	1	21	16	5	1,076	4	4
33	Primary metal industries	146	71	46	25	109	75	34	3,179	1	1
36	Electrical machinery	12	-	-	-	12	12	-	291	1	1
	Arkansas, total	1,200	600	452	148	977	600	377	1,228	3	4
22	Textile mill products	16	(Z)	-	(Z)	16	16	-	835	1	1
24	Lumber and wood products	203	78	37	41	139	124	14	957	9	11
25	Furniture and fixtures	33	3	2	1	30	30	(Z)	463	9	10
26	Paper and allied products	252	210	194	16	273	42	231	4,738	1	1
27	Printing and publishing	3	-	-	-	3	3	-	144	30	30
28	Chemicals and allied products	118	91	78	13	157	26	130	4,752	3	2
32	Stone, clay and glass products	64	18	1	17	46	46	-	2,161	8	5
36	Electrical machinery	20	1	-	1	20	20	-	351	1	1
39	Miscellaneous manufacturing, including ordnance	12	2	(Z)	2	10	10	-	357	38	46
	California, total	11,334	2,533	516	2,016	9,128	8,801	327	1,277	1	1
20	Food and kindred products	1,203	208	70	138	1,063	995	67	1,094	4	5
22	Textile mill products	22	1	-	1	21	21	-	422	17	18
23	Apparel and related products	14	(Z)	(Z)	(Z)	14	14	-	28	19	20
24	Lumber and wood products	1,203	328	94	234	950	875	74	2,996	3	3
25	Furniture and fixtures	92	8	1	7	84	84	(Z)	392	11	11
26	Paper and allied products	422	149	101	48	362	273	89	1,885	4	4
27	Printing and publishing	149	6	4	2	143	143	(Z)	342	11	11
28	Chemicals and allied products	725	114	26	88	612	610	2	3,466	2	2
29	Petroleum and coal products	1,244	567	44	523	705	677	28	9,394	1	1
30	Rubber and plastics products, n.e.c.	266	22	2	20	244	244	-	1,243	10	11
32	Stone, clay and glass products	887	244	72	172	705	643	62	2,601	3	4
33	Primary metal industries	1,914	296	19	277	1,620	1,618	2	4,519	2	3
34	Fabricated metal products	509	62	14	48	447	447	(Z)	741	4	5
35	Machinery, except electrical	542	46	26	20	496	496	-	829	8	6
36	Electrical machinery	781	295	7	288	486	486	-	786	1	1
37	Transportation equipment	919	141	14	127	779	779	(Z)	709	2	2
38	Instruments and related products	54	4	(Z)	4	51	51	-	229	13	14
39	Miscellaneous manufacturing, including ordnance	372	38	20	18	334	333	1	552	2	2
	Colorado, total	656	213	151	62	596	443	153	948	6	6
20	Food and kindred products	146	55	40	15	132	92	40	1,139	9	9
26	Paper and allied products	9	1	1	(Z)	7	7	-	1,107	1	1
28	Chemicals and allied products	37	12	10	2	33	25	8	3,385	1	1
29	Petroleum and coal products	25	5	(Z)	5	20	20	-	3,912	1	1
32	Stone, clay and glass products	99	24	5	19	76	76	-	2,930	25	19
36	Electrical machinery	5	1	(Z)	1	5	5	-	261	5	6
	Connecticut, total	2,234	357	220	137	2,091	1,878	213	749	2	2
20	Food and kindred products	44	2	1	1	43	43	(Z)	605	15	16
22	Textile mill products	94	37	33	4	97	57	40	828	20	20
26	Paper and allied products	100	51	43	8	88	48	39	1,669	1	1
27	Printing and publishing	36	1	(Z)	1	35	35	-	346	15	15
28	Chemicals and allied products	107	32	21	11	98	75	23	1,734	1	1

See footnotes at end of table.

TABLE 5. Horsepower of Power Equipment in Manufacturing Industries for States, by Major Industry Groups: 1962--Continued

Code	State and major industry group	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
		A	B	C	D	E	F	G	H	A	E
	Connecticut--Continued										
30	Rubber and plastics products, n.e.c..	118	12	6	6	110	105	4	972	8	9
31	Leather and leather products.....	6	(Z)	-	(Z)	6	6	-	164	1	1
33	Primary metal industries.....	489	89	54	35	463	400	63	2,287	2	2
34	Fabricated metal products.....	237	25	11	14	226	211	15	704	8	8
35	Machinery, except electrical.....	346	8	2	6	338	338	(Z)	756	4	4
36	Electrical machinery.....	75	2	(Z)	2	73	73	-	241	5	5
37	Transportation equipment.....	331	41	15	26	305	290	15	622	1	1
38	Instruments and related products.....	28	1	(Z)	(Z)	27	27	-	246	1	1
39	Miscellaneous manufacturing, including ordnance.....	126	39	29	10	101	89	13	624	6	5
	Delaware, total.....	575	192	65	127	414	384	30	1,962	2	7
20	Food and kindred products.....	44	3	1	2	41	41	-	911	6	6
28	Chemicals and allied products.....	121	57	40	17	84	65	19	2,921	5	7
31	Leather and leather products.....	12	4	3	1	9	8	1	943	6	1
34	Fabricated metal products.....	15	1	1	-	15	15	-	1,040	10	10
	District of Columbia, total.....	54	3	1	2	52	51	1	480	16	15
20	Food and kindred products.....	21	1	1	(Z)	21	20	1	962	18	18
27	Printing and publishing.....	26	1	1	(Z)	25	25	-	389	26	26
	Florida, total.....	1,828	752	524	228	1,597	1,076	520	1,346	2	1
20	Food and kindred products.....	332	101	73	28	240	231	9	1,391	2	3
21	Tobacco products.....	4	-	-	-	4	4	-	78	1	1
24	Lumber and wood products.....	92	48	13	35	44	44	-	997	12	10
26	Paper and allied products.....	480	408	367	41	499	72	427	4,211	1	1
27	Printing and publishing.....	31	(Z)	(Z)	(Z)	30	30	-	407	10	11
28	Chemicals and allied products.....	419	108	46	62	383	312	71	3,054	3	4
32	Stone, clay and glass products.....	170	36	10	26	147	135	12	1,773	4	4
34	Fabricated metal products.....	61	18	2	16	42	42	(Z)	518	15	10
	Georgia, total.....	2,353	700	490	210	2,235	1,652	583	868	2	2
20	Food and kindred products.....	294	30	10	20	275	264	11	1,042	10	11
22	Textile mill products.....	620	74	51	23	585	547	38	706	1	1
23	Apparel and related products.....	12	-	-	-	11	11	-	29	7	8
24	Lumber and wood products.....	185	85	13	72	100	100	(Z)	985	15	20
26	Paper and allied products.....	530	404	379	25	640	126	515	3,310	1	1
28	Chemicals and allied products.....	160	44	21	23	129	116	13	2,193	3	4
30	Rubber and plastics products, n.e.c..	15	1	(Z)	1	14	14	-		20	18
31	Leather and leather products.....	4	-	-	-	4	4	-	122	3	3
32	Stone, clay and glass products.....	120	28	9	19	96	93	3	1,301	3	3
34	Fabricated metal products.....	59	3	1	2	59	56	3	731	9	9
37	Transportation equipment.....	98	12	3	9	86	86	-	572	1	1
39	Miscellaneous manufacturing, including ordnance.....	30	2	2	-	28	28	-	799	20	18
	Hawaii, total.....	342	214	139	75	215	128	87	2,116	1	2
20	Food and kindred products.....	271	179	127	52	172	92	79	2,423	2	3
27	Printing and publishing.....	2	-	-	-	3	2	-	363	28	28
	Idaho, total.....	611	240	83	157	432	370	61	2,612	5	4
20	Food and kindred products.....	104	34	21	13	90	71	19	1,379	6	7
24	Lumber and wood products.....	279	159	37	122	131	120	12	2,904	11	12
28	Chemicals and allied products.....	88	21	11	10	66	66	-	6,326	1	1
	Illinois, total.....	8,637	1,957	970	987	7,810	6,681	1,129	1,031	1	1
20	Food and kindred products.....	928	211	146	65	863	716	146	1,107	4	4
23	Apparel and related products.....	8	-	-	-	8	8	-	23	6	6
24	Lumber and wood products.....	93	28	4	24	65	65	1	1,176	11	11
25	Furniture and fixtures.....	72	3	1	2	69	69	-	413	6	6
26	Paper and allied products.....	272	98	73	25	283	174	109	1,021	2	2
27	Printing and publishing.....	209	4	2	2	205	204	1	363	10	10
28	Chemicals and allied products.....	648	147	56	91	524	501	23	2,310	2	4
29	Petroleum and coal products.....	646	348	69	279	353	299	55	8,196	1	1
30	Rubber and plastics products, n.e.c..	155	5	2	3	150	149	1	784	3	3
32	Stone, clay and glass products.....	432	138	73	65	364	294	70	1,386	6	4
33	Primary metal industries.....	2,161	601	338	263	2,136	1,560	576	2,839	1	1
34	Fabricated metal products.....	713	61	21	40	657	652	55	739	2	2
35	Machinery, except electrical.....	1,204	137	54	83	1,099	1,067	32	1,012	2	2
36	Electrical machinery.....	468	99	88	11	447	369	78	369	5	3

See footnotes at end of table.

TABLE 5. Horsepower of Power Equipment in Manufacturing Industries for States, by Major Industry Groups: 1962--Continued

Code	State and major industry group	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
		A	B	C	D	E	F	G	H	A	E
	Illinois--Continued										
37	Transportation equipment	374	37	12	25	346	337	9	1,133	2	2
38	Instruments and related products	82	9	7	2	74	73	1	365	7	8
39	Miscellaneous manufacturing, including ordnance	94	17	14	3	93	78	15	346	7	7
	Indiana, total	7,060	1,862	974	888	6,827	5,198	1,629	1,560	1	1
20	Food and kindred products	374	69	36	33	350	306	44	1,165	8	8
24	Lumber and wood products	66	27	4	23	40	39	1	713	16	17
25	Furniture and fixtures	75	12	2	10	66	64	2	424	12	6
26	Paper and allied products	121	35	28	7	113	85	28	1,287	1	1
27	Printing and publishing	48	2	(Z)	2	47	47	-	329	10	11
28	Chemicals and allied products	416	170	83	87	335	246	88	3,086	2	2
29	Petroleum and coal products	499	427	138	289	272	72	200	8,580	2	4
30	Rubber and plastics products, n.e.c.	184	15	3	12	168	168	-	1,141	5	5
32	Stone, clay and glass products	380	102	42	60	293	278	15	1,859	3	3
33	Primary metal industries	2,912	758	504	254	3,353	2,154	1,200	3,869	1	1
34	Fabricated metal products	304	28	10	18	276	276	(Z)	945	8	8
35	Machinery, except electrical	293	23	2	21	270	270	(Z)	735	4	4
36	Electrical machinery	387	31	8	23	357	356	1	530	1	1
37	Transportation equipment	830	78	35	43	765	752	13	1,287	1	1
38	Instruments and related products	14	3	3	(Z)	15	10	4	351	1	1
	Iowa, total	1,585	396	198	198	1,408	1,188	220	1,270	2	3
20	Food and kindred products	440	118	69	49	406	322	84	1,234	5	5
24	Lumber and wood products	24	7	3	4	17	16	1	775	12	11
28	Chemicals and allied products	77	26	7	19	67	52	15	2,557	3	3
34	Fabricated metal products	35	2	1	1	33	33	1	492	3	3
35	Machinery, except electrical	200	78	42	36	192	122	70	871	7	7
36	Electrical machinery	76	8	2	6	69	69	-	608	1	1
38	Instruments and related products	4	(Z)	(Z)	(Z)	4	4	-	378	1	1
	Kansas, total	1,127	317	101	216	926	810	115	1,348	2	3
20	Food and kindred products	190	9	1	8	182	181	1	1,294	12	12
26	Paper and allied products	13	5	4	1	16	9	7	832	1	1
28	Chemicals and allied products	208	120	54	66	146	87	59	5,077	2	2
29	Petroleum and coal products	274	115	8	107	165	159	6	8,998	1	1
32	Stone, clay and glass products	128	46	32	14	125	82	42	2,550	5	5
33	Primary metal industries	23	6	1	5	17	17	-	1,274	15	11
34	Fabricated metal products	44	6	1	6	38	38	-	1,084	8	7
35	Machinery, except electrical	53	4	(Z)	4	49	49	-	931	21	22
36	Electrical machinery	8	(Z)	-	(Z)	7	7	-	348	2	2
37	Transportation equipment	128	6	1	5	122	122	-	452	1	1
	Kentucky, total	2,210	260	79	181	2,007	1,949	58	1,650	1	1
20	Food and kindred products	174	36	15	21	147	138	9	1,080	6	7
21	Tobacco products	64	2	(Z)	2	62	62	-	789	8	8
22	Textile mill products	8	-	-	-	8	8	-	321	21	21
24	Lumber and wood products	82	31	3	28	53	51	2	1,010	17	16
25	Furniture and fixtures	17	3	3	-	15	14	1	424	9	10
26	Paper and allied products	19	1	-	1	18	18	-	746	2	2
27	Printing and publishing	14	(Z)	(Z)	(Z)	14	14	(Z)	225	5	5
28	Chemicals and allied products	1,016	66	24	42	976	950	26	14,206	2	1
29	Petroleum and coal products	41	16	-	16	25	25	-	6,799	2	3
32	Stone, clay and glass products	98	49	20	29	59	49	10	2,284	4	5
33	Primary metal industries	269	31	9	22	247	238	8	3,717	1	1
34	Fabricated metal products	87	9	2	7	78	77	1	888	3	3
35	Machinery, except electrical	99	12	1	11	88	88	-	776	6	7
36	Electrical machinery	118	4	(Z)	4	114	114	-	740	1	1
37	Transportation equipment	59	(Z)	-	(Z)	58	58	-	1,636	1	1
	Louisiana, total	3,802	2,521	1,478	1,043	2,178	1,281	897	3,863	1	1
20	Food and kindred products	293	160	64	96	165	133	32	1,570	5	7
24	Lumber and wood products	160	57	17	40	115	103	12	1,199	9	8
26	Paper and allied products	457	330	283	47	537	126	411	3,764	1	1
28	Chemicals and allied products	1,077	781	445	336	572	296	276	9,769	1	2
29	Petroleum and coal products	965	598	117	481	481	368	114	13,546	1	1
32	Stone, clay and glass products	126	18	2	16	108	108	1	2,378	10	12
33	Primary metal industries	558	544	540	4	66	14	52	17,260	1	1
37	Transportation equipment	43	13	7	6	31	31	-	602	7	6
	Maine, total	1,231	686	496	190	1,102	545	557	1,426	2	2
20	Food and kindred products	69	6	1	5	63	63	(Z)	744	22	23
22	Textile mill products	77	21	20	1	70	56	13	660	5	6
24	Lumber and wood products	98	45	13	32	57	53	4	846	10	11

See footnotes at end of table.

TABLE 5. Horsepower of Power Equipment in Manufacturing Industries for States, by Major Industry Groups: 1962--Continued

Code	State and major industry group	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
		A	B	C	D	E	F	G	H	A	E
	Maine--Continued										
26	Paper and allied products	850	592	452	140	795	258	538	6,162	1	1
27	Printing and publishing	1	-	-	-	1	1	-	72	17	17
31	Leather and leather products	41	7	4	3	35	35	(Z)	187	4	5
37	Transportation equipment	16	(Z)	(Z)	(Z)	16	16	-	380	2	2
	Maryland, total	1,962	712	348	364	1,640	1,251	390	1,073	1	1
20	Food and kindred products	144	23	15	8	135	121	14	604	4	5
22	Textile mill products	15	2	1	1	14	14	(Z)	714	33	33
25	Furniture and fixtures	7	-	-	-	7	7	-	172	13	13
26	Paper and allied products	148	99	70	29	166	49	117	1,991	1	1
27	Printing and publishing	35	(Z)	(Z)	(Z)	34	34	-	361	28	28
28	Chemicals and allied products	182	21	5	16	166	161	6	1,750	2	2
30	Rubber and plastics products, n.e.c.	84	15	11	4	83	70	13	961	2	3
31	Leather and leather products	4	2	2	-	2	2	(Z)	190	1	1
33	Primary metal industries	754	467	228	239	525	287	238	2,688	1	1
34	Fabricated metal products	60	3	1	2	57	57	-	577	4	4
35	Machinery, except electrical	63	1	1	(Z)	62	62	-	744	5	5
36	Electrical machinery	39	3	1	2	35	35	-	389	1	1
37	Transportation equipment	174	20	6	14	154	154	-	833	1	1
39	Miscellaneous manufacturing, including ordnance	16	4	2	2	13	12	1	318	4	4
	Massachusetts, total	3,309	572	445	127	2,962	2,737	225	638	2	2
20	Food and kindred products	195	30	24	6	180	165	15	709	5	5
22	Textile mill products	230	29	22	7	214	201	12	592	3	4
23	Apparel and related products	9	1	1	(Z)	7	7	-	17	24	23
25	Furniture and fixtures	39	3	3	(Z)	36	35	1	450	19	20
26	Paper and allied products	410	130	114	16	371	280	91	1,435	3	3
27	Printing and publishing	70	1	(Z)	1	69	69	(Z)	234	18	18
28	Chemicals and allied products	189	27	6	21	168	162	6	1,803	13	14
29	Petroleum and coal products	22	3	(Z)	3	19	19	-	2,447	6	7
30	Rubber and plastics products, n.e.c.	307	15	6	9	294	292	2	1,019	3	2
31	Leather and leather products	92	20	17	3	84	72	12	185	6	6
33	Primary metal industries	196	13	2	11	184	184	(Z)	1,071	3	3
34	Fabricated metal products	274	24	18	6	254	250	3	849	6	6
35	Machinery, except electrical	358	109	98	11	310	249	61	748	6	7
36	Electrical machinery	384	107	102	5	277	277	-	543	1	1
37	Transportation equipment	136	5	2	3	132	132	-	1,089	1	1
38	Instruments and related products	88	16	15	1	76	72	4	502	1	1
39	Miscellaneous manufacturing, including ordnance	152	4	2	1	149	148	(Z)	524	4	4
	Michigan, total	9,165	2,354	1,549	805	7,895	6,810	1,084	1,359	1	1
20	Food and kindred products	357	53	27	26	340	304	35	956	7	6
22	Textile mill products	13	(Z)	-	(Z)	13	13	-	524	11	11
23	Apparel and related products	20	3	1	2	17	17	-	166	7	8
24	Lumber and wood products	119	36	7	29	84	83	1	1,291	12	14
25	Furniture and fixtures	68	5	1	4	64	63	(Z)	512	7	8
26	Paper and allied products	600	395	344	51	502	205	296	2,792	2	3
27	Printing and publishing	83	(Z)	(Z)	(Z)	82	82	-	474	26	26
28	Chemicals and allied products	914	552	462	90	629	362	267	3,745	1	1
29	Petroleum and coal products	120	39	( )	39	81	81	-	8,596	7	11
30	Rubber and plastics products, n.e.c.	174	34	29	5	195	140	55	1,308	13	12
32	Stone, clay and glass products	329	149	91	58	272	180	92	2,639	7	4
33	Primary metal industries	1,873	595	496	99	1,495	1,278	217	2,804	2	2
34	Fabricated metal products	582	57	21	36	528	526	2	868	5	5
35	Machinery, except electrical	744	64	16	48	719	679	39	718	5	5
36	Electrical machinery	84	12	3	9	76	72	4	352	6	7
37	Transportation equipment	2,985	351	44	308	2,707	2,634	73	1,319	1	1
38	Instruments and related products	28	5	5	(Z)	23	23	-	347	1	1
	Minnesota, total	1,626	481	279	202	1,409	1,145	265	1,004	3	3
20	Food and kindred products	442	111	63	48	380	331	49	1,230	4	5
22	Textile mill products	6	1	-	1	5	5	-	322	1	1
26	Paper and allied products	307	149	132	17	306	158	149	2,868	1	1
27	Printing and publishing	57	2	2	(Z)	55	54	(Z)	487	14	15
28	Chemicals and allied products	79	21	(Z)	21	58	58	(Z)	2,426	20	22
29	Petroleum and coal products	52	24	5	19	29	28	1	5,923	2	3
32	Stone, clay and glass products	94	14	2	12	81	81	-	1,208	13	13
33	Primary metal industries	123	65	33	32	110	58	52	2,943	15	11
34	Fabricated metal products	81	6	2	4	75	75	(Z)	647	10	10
35	Machinery, except electrical	130	13	4	9	117	117	(Z)	611	5	5
37	Transportation equipment	69	31	25	6	47	38	9	976	5	8
38	Instruments and related products	14	-	-	-	14	14	-	187	1	1
39	Miscellaneous manufacturing, including ordnance	33	4	4	(Z)	33	29	4	317	8	8

See footnotes at end of table.

TABLE 5. Horsepower of Power Equipment in Manufacturing Industries for States, by Major Industry Groups: 1962--Continued

Code	State and major industry group	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
		A	B	C	D	E	F	G	H	A	E
	Mississippi, total	965	294	136	158	853	671	182	957	5	5
20	Food and kindred products	185	7	1	6	179	178	1	1,908	21	21
23	Apparel and related products	9	(Z)	(Z)	-	9	9	-	38	19	20
24	Lumber and wood products	190	70	17	53	125	120	5	1,065	12	15
26	Paper and allied products	193	141	110	31	226	52	173	2,733	1	1
28	Chemicals and allied products	123	36	7	29	89	87	2	4,140	1	1
34	Fabricated metal products	34	4	1	3	32	31	1	956	21	22
35	Machinery, except electrical	11	-	-	-	11	11	-	590	15	15
36	Electrical machinery	14	1	(Z)	1	13	13	-	389	1	1
37	Transportation equipment	29	3	(Z)	3	26	26	-	400	1	1
	Missouri, total	2,053	462	216	246	1,716	1,590	125	753	2	2
20	Food and kindred products	372	100	76	24	299	272	27	1,070	6	7
23	Apparel and related products	8	1	(Z)	1	7	7	(Z)	28	20	20
24	Lumber and wood products	71	35	6	29	37	36	1	1,129	19	20
26	Paper and allied products	45	5	3	2	41	39	2	470	3	3
27	Printing and publishing	56	3	2	1	53	53	-	325	11	12
28	Chemicals and allied products	224	116	66	50	155	108	47	1,968	1	2
29	Petroleum and coal products	83	72	28	44	45	10	34	4,823	1	2
31	Leather and leather products	28	2	2	-	27	26	1	97	4	4
32	Stone, clay and glass products	255	36	9	27	230	218	12	2,494	2	2
33	Primary metal industries	224	21	11	10	203	203	-	2,258	3	3
34	Fabricated metal products	132	14	1	13	118	118	-	710	5	4
35	Machinery, except electrical	106	12	5	7	96	94	2	678	8	8
36	Electrical machinery	67	1	1	(Z)	65	65	-	339	10	10
37	Transportation equipment	229	32	2	30	197	197	-	610	1	1
38	Instruments and related products	6	-	-	-	6	6	-	235	5	5
39	Miscellaneous manufacturing, including ordnance	76	6	1	5	70	70	(Z)	635	3	3
	Montana, total	509	125	30	95	398	384	15	3,402	5	4
24	Lumber and wood products	135	53	14	39	84	82	2	2,106	16	19
29	Petroleum and coal products	64	43	(Z)	42	21	21	-	9,771	1	1
	Nebraska, total	437	78	19	59	373	359	14	961	3	4
20	Food and kindred products	191	43	16	27	162	148	13	969	7	7
27	Printing and publishing	9	(Z)	-	(Z)	9	9	-	267	21	21
28	Chemicals and allied products	57	12	(Z)	12	44	44	-	4,742	5	5
34	Fabricated metal products	26	3	-	3	24	24	-	902	16	18
35	Machinery, except electrical	17	2	-	2	15	15	(Z)	649	20	23
36	Electrical machinery	13	1	(Z)	1	11	11	-	310	1	1
37	Transportation equipment	12	1	-	1	11	11	(Z)	5,073	1	1
	Nevada, total	261	138	123	15	128	123	5	6,369	2	4
32	Stone, clay and glass products	29	3	(Z)	3	26	26	-	3,053	2	2
	New Hampshire, total	480	150	124	26	389	330	58	732	3	3
22	Textile mill products	82	26	20	6	67	56	11	859	8	9
24	Lumber and wood products	36	10	1	9	26	26	(Z)	902	18	20
25	Furniture and fixtures	9	1	1	-	8	8	-	619	17	19
26	Paper and allied products	181	107	99	8	119	74	46	4,090	1	2
27	Printing and publishing	2	-	-	-	2	2	-	79	7	7
31	Leather and leather products	34	(Z)	(Z)	(Z)	34	34	-	199	11	12
32	Stone, clay and glass products	11	1	(Z)	1	10	10	-	803	8	9
33	Primary metal industries	8	(Z)	-	(Z)	8	8	-	638	1	1
35	Machinery, except electrical	60	1	(Z)	1	60	59	(Z)	963	6	6
36	Electrical machinery	16	(Z)	(Z)	(Z)	15	15	-	177	6	6
	New Jersey, total	4,712	928	474	454	4,158	3,784	374	832	1	1
20	Food and kindred products	350	58	23	35	324	292	32	902	6	6
22	Textile mill products	113	28	22	6	91	85	6	474	12	14
24	Lumber and wood products	44	4	(Z)	4	40	40	-	983	24	26
25	Furniture and fixtures	15	2	-	2	13	13	-	212	10	11
26	Paper and allied products	351	133	111	22	323	219	104	1,625	1	1
27	Printing and publishing	85	(Z)	(Z)	(Z)	84	84	-	447	27	27
28	Chemicals and allied products	911	194	119	75	839	717	122	1,846	3	3
29	Petroleum and coal products	325	177	81	96	211	148	63	3,748	3	2
30	Rubber and plastics products, n.e.c.	220	15	5	10	205	205	-	1,084	6	6
31	Leather and leather products	21	1	(Z)	1	20	20	-	202	9	9
32	Stone, clay and glass products	359	69	22	47	303	289	13	1,311	5	3
33	Primary metal industries	541	83	43	40	476	458	18	2,047	2	2
34	Fabricated metal products	370	24	3	21	348	347	1	840	5	5

See footnotes at end of table.

TABLE 5. Horsepower of Power Equipment in Manufacturing Industries for States, by Major Industry Groups: 1962--Continued

Code	State and major industry group	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
		A	B	C	D	E	F	G	H	A	E
	New Jersey--Continued										
35	Machinery, except electrical	332	68	15	53	266	264	3	799	4	5
36	Electrical machinery	240	31	25	66	219	209	10	283	6	6
37	Transportation equipment	294	35	3	32	260	259	-	939	2	2
38	Instruments and related products	45	2	1	1	43	43	-	251	5	5
39	Miscellaneous manufacturing, including ordnance	78	2	(Z)	2	76	75	(Z)	320	8	8
	New Mexico, total	154	62	5	57	93	93	-	1,656	17	10
20	Food and kindred products	16	2	-	2	14	14	-	781	11	12
28	Chemicals and allied products	4	1	(Z)	1	3	3	-	1,923	1	1
32	Stone, clay and glass products	38	12	3	9	27	27	-	4,082	11	6
	New York, total	8,837	1,673	840	833	8,126	7,163	963	690	1	1
20	Food and kindred products	838	140	59	81	758	699	60	941	4	4
22	Textile mill products	254	29	24	5	231	226	6	522	11	11
23	Apparel and related products	30	1	1	(Z)	29	29	(Z)	11	12	12
24	Lumber and wood products	189	66	19	47	123	122	1	1,503	10	9
25	Furniture and fixtures	129	5	3	2	126	124	2	474	6	6
26	Paper and allied products	762	290	203	87	690	472	218	1,472	3	3
27	Printing and publishing	275	5	2	3	270	270	-	278	8	8
28	Chemicals and allied products	775	198	114	84	685	577	107	1,914	4	5
30	Rubber and plastics products, n.e.c.	232	17	11	6	222	215	6	949	8	8
31	Leather and leather products	82	12	9	3	72	70	1	182	7	7
32	Stone, clay and glass products	546	147	43	104	423	399	24	1,773	8	5
33	Primary metal industries	1,669	300	137	163	1,725	1,370	355	3,144	1	1
34	Fabricated metal products	457	43	13	30	414	414	(Z)	674	4	5
35	Machinery, except electrical	701	106	58	48	625	595	30	756	5	5
36	Electrical machinery	549	33	10	23	518	515	2	462	3	3
37	Transportation equipment	717	101	20	81	622	617	4	1,056	3	2
38	Instruments and related products	334	167	110	57	312	167	144	575	3	3
39	Miscellaneous manufacturing, including ordnance	215	7	4	3	208	207	1	277	7	7
	North Carolina, total	2,736	563	362	204	2,492	2,170	322	634	2	2
20	Food and kindred products	169	3	1	2	165	165	-	743	12	13
21	Tobacco products	136	65	58	7	129	71	58		1	1
22	Textile mill products	1,200	64	52	12	1,167	1,136	31	595	1	1
23	Apparel and related products	13	(Z)	-	(Z)	12	12	-	35	7	7
24	Lumber and wood products	219	94	10	84	126	125	1	908	11	12
25	Furniture and fixtures	172	18	3	15	156	154	2	393	7	4
26	Paper and allied products	303	203	173	30	287	100	188	3,132	1	1
28	Chemicals and allied products	135	74	61	13	105	61	43	1,429	3	4
32	Stone, clay and glass products	121	23	1	22	97	97	-	1,273	16	16
34	Fabricated metal products	35	3	1	2	32	32	-	585	7	8
35	Machinery, except electrical	59	6	(Z)	6	53	53	-	714	9	9
	North Dakota, total	52	26	10	16	38	26	12	1,211	7	9
20	Food and kindred products	20	2	-	2	18	18	-	952	16	16
	Ohio, total	13,962	3,572	2,001	1,571	11,645	10,390	1,255	1,585	1	1
20	Food and kindred products	498	62	25	37	447	436	11	1,066	6	6
22	Textile mill products	48	1	1	(Z)	47	46	(Z)	672	4	5
23	Apparel and related products	8	(Z)	(Z)	(Z)	8	8	-	51	20	20
25	Furniture and fixtures	64	17	2	15	48	47	(Z)	465	7	10
26	Paper and allied products	487	242	220	22	462	244	218	1,669	1	1
27	Printing and publishing	134	5	4	1	131	130	1	305	21	21
28	Chemicals and allied products	1,348	483	264	219	985	865	120	5,098	1	1
29	Petroleum and coal products	313	134	1	133	190	179	11	6,123	4	5
30	Rubber and plastics products, n.e.c.	676	196	174	22	605	480	125	1,157	2	2
31	Leather and leather products	16	2	1	1	16	14	1	172	4	4
32	Stone, clay and glass products	673	183	100	83	549	491	58	1,329	3	3
33	Primary metal industries	5,739	1,843	1,119	724	4,563	3,896	667	4,267	1	1
34	Fabricated metal products	750	92	11	81	660	659	2	877	3	3
35	Machinery, except electrical	995	96	42	54	934	899	35	842	2	2
36	Electrical machinery	469	33	11	22	437	436	1	543	2	2
37	Transportation equipment	1,511	141	20	121	1,372	1,370	2	1,278	1	1
38	Instruments and related products	15	2	1	1	13	13	(Z)	209	9	9
39	Miscellaneous manufacturing, including ordnance	141	10	3	7	131	130	1	694	8	9
	Oklahoma, total	909	284	46	238	659	625	35	1,548	2	3
20	Food and kindred products	91	8	7	1	84	83	1	1,060	17	16
26	Paper and allied products	29	2	1	1	27	27	-	4,708	1	1
28	Chemicals and allied products	40	8	1	7	32	32	-	6,182	1	1

See footnotes at end of table.

TABLE 5. Horsepower of Power Equipment in Manufacturing Industries for States, by Major Industry Groups: 1962--Continued

Code	State and major industry group	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
		A	B	C	D	E	F	G	H	A	E
	Oklahoma--Continued										
29	Petroleum and coal products	346	215	27	188	164	131	33	7,865	1	1
32	Stone, clay and glass products	118	21	(Z)	21	97	97	(Z)	2,172	1	2
33	Primary metal industries	55	9	2	7	47	47	-	1,984	1	1
34	Fabricated metal products	46	3	2	1	44	43	(Z)	715	7	8
35	Machinery, except electrical	71	3	(Z)	3	68	68	(Z)	944	26	28
37	Transportation equipment	24	2	-	2	22	22	-	547	3	3
	Oregon, total	2,589	959	301	658	1,846	1,628	217	2,222	4	4
20	Food and kindred products	137	32	12	20	115	105	10	952	9	8
24	Lumber and wood products	1,663	815	244	571	1,000	847	153	2,646	5	6
25	Furniture and fixtures	14	1	1	(Z)	12	12	-	926	25	22
26	Paper and allied products	448	61	33	28	436	386	49	7,298	4	4
28	Chemicals and allied products	19	2	(Z)	2	17	17	(Z)	2,199	14	15
32	Stone, clay and glass products	57	14	4	10	48	43	4	2,284	8	7
33	Primary metal industries	88	11	5	6	77	77	-	2,266	6	7
34	Fabricated metal products	45	8	1	7	38	38	-	1,390	13	14
37	Transportation equipment	34	9	-	9	24	24	-	837	20	25
	Pennsylvania, total	14,095	3,853	1,763	2,090	12,617	10,241	2,376	1,353	1	1
20	Food and kindred products	551	113	79	34	501	438	63	791	4	4
21	Tobacco products	15	(Z)	-	(Z)	15	15	-	159	4	4
22	Textile mill products	209	25	14	11	189	184	5	336	5	5
23	Apparel and related products	31	2	1	1	28	28	-	20	8	8
25	Furniture and fixtures	87	6	3	3	84	81	3	467	11	11
26	Paper and allied products	580	235	193	42	604	345	259	1,836	2	2
27	Printing and publishing	103	6	4	2	97	97	(Z)	240	11	11
28	Chemicals and allied products	810	288	149	139	640	522	117	2,799	3	3
29	Petroleum and coal products	528	293	51	242	327	236	91	4,685	3	3
30	Rubber and plastics products, n.e.c.	222	12	6	6	211	210	1	1,222	5	5
31	Leather and leather products	47	12	11	1	40	35	5	156	6	7
32	Stone, clay and glass products	1,028	221	112	109	891	807	83	2,091	5	4
33	Primary metal industries	6,916	2,332	1,060	1,272	6,215	4,583	1,632	3,997	1	1
34	Fabricated metal products	946	84	11	73	862	862	1	1,168	2	2
35	Machinery, except electrical	763	53	19	34	719	709	9	941	3	3
36	Electrical machinery	423	26	10	17	421	397	24	520	2	1
37	Transportation equipment	428	61	29	32	450	367	82	1,070	2	2
39	Miscellaneous manufacturing, including ordnance	195	9	3	6	188	187	1	716	8	9
	Rhode Island, total	594	59	38	21	572	535	37	642	8	8
20	Food and kindred products	23	7	3	4	18	15	2	618	11	13
22	Textile mill products	115	17	16	1	108	98	10	542	15	16
28	Chemicals and allied products	15	(Z)	(Z)	(Z)	15	15	-	1,209	11	11
33	Primary metal industries	106	13	9	3	113	94	19	1,384	5	5
34	Fabricated metal products	37	1	1	(Z)	35	35	-	549	13	14
35	Machinery, except electrical	46	3	2	1	44	43	1	634	9	9
36	Electrical machinery	11	(Z)	(Z)	(Z)	11	11	-	214	16	17
38	Instruments and related products	7	1	(Z)	1	6	6	-	284	1	1
39	Miscellaneous manufacturing, including ordnance	59	2	2	(Z)	56	56	(Z)	342	6	6
	South Carolina, total	2,463	753	626	128	2,164	1,709	456	1,144	1	2
20	Food and kindred products	77	3	2	1	74	74	-	1,308	24	23
22	Textile mill products	1,187	215	187	27	1,034	972	62	1,005	1	1
23	Apparel and related products	9	-	-	-	9	9	-	30	19	19
24	Lumber and wood products	125	32	8	24	94	93	1	893	25	20
25	Furniture and fixtures	15	-	-	-	15	15	-	528	7	7
26	Paper and allied products	241	169	145	24	214	72	142	3,892	1	1
28	Chemicals and allied products	590	314	277	37	527	276	251	5,435	1	1
32	Stone, clay and glass products	106	9	(Z)	9	97	97	(Z)	1,799	5	5
36	Electrical machinery	25	5	5	(Z)	19	19	-	644	1	1
	South Dakota, total	114	21	3	18	94	92	2	1,057	19	22
20	Food and kindred products	79	8	2	6	74	72	2	1,312	26	27
	Tennessee, total	4,549	1,234	945	289	3,761	3,314	447	1,819	1	1
20	Food and kindred products	232	10	3	7	223	222	1	1,172	9	9
22	Textile mill products	132	6	(Z)	6	126	126	(Z)	471	3	3
23	Apparel and related products	3	1	1	(Z)	2	2	-	6	13	16
24	Lumber and wood products	129	43	16	27	102	86	16	938	11	12
25	Furniture and fixtures	44	4	1	3	40	40	-	354	7	7
26	Paper and allied products	426	98	84	14	506	328	178	5,727	1	1
27	Printing and publishing	19	(Z)	-	(Z)	19	19	-	201	12	12

See footnotes at end of table.

TABLE 5. Horsepower of Power Equipment in Manufacturing Industries for States, by Major Industry Groups: 1962--Continued

Code	State and major industry group	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
		A	B	C	D	E	F	G	H	A	E
	Tennessee--Continued										
28	Chemicals and allied products	2,591	989	832	157	1,853	1,603	250	9,851	1	1
30	Rubber and plastics products, n.e.c.	91	2	-	2	88	88	-	1,736	2	2
31	Leather and leather products	17	-	-	-	17	17	-	126	2	2
32	Stone, clay and glass products	230	34	1	33	196	196	-	2,218	5	3
33	Primary metal industries	366	15	2	13	352	352	-	3,739	1	1
34	Fabricated metal products	71	10	2	8	61	61	-	564	10	10
35	Machinery, except electrical	53	4	1	3	50	50	-	768	13	13
36	Electrical machinery	77	12	(Z)	12	65	65	-	581	2	2
37	Transportation equipment	31	2	1	1	29	29	-	540	1	1
39	Miscellaneous manufacturing, including ordnance	18	1	(Z)	1	16	16	-	322	10	11
	Texas, total	11,284	6,950	3,097	3,852	6,282	4,334	1,947	3,212	1	1
20	Food and kindred products	590	63	35	28	554	527	28	1,158	5	4
22	Textile mill products	43	5	(Z)	5	38	38	-	737	4	2
23	Apparel and related products	9	1	-	1	8	8	-	27	8	9
24	Lumber and wood products	204	52	27	25	172	151	21	1,412	9	9
25	Furniture and fixtures	27	1	1	(Z)	25	25	-	287	13	13
26	Paper and allied products	274	157	140	17	551	117	434	2,782	1	1
27	Printing and publishing	46	1	(Z)	1	45	45	-	254	11	11
28	Chemicals and allied products	3,491	2,514	1,146	1,368	1,520	977	543	12,824	1	1
29	Petroleum and coal products	3,442	2,598	467	2,131	1,380	844	536	13,190	1	1
30	Rubber and plastics products, n.e.c.	90	3	(Z)	3	87	87	-	1,811	13	12
32	Stone, clay and glass products	476	98	52	46	419	378	41	2,507	4	5
33	Primary metal industries	1,645	1,283	1,186	97	707	361	346	7,127	1	1
34	Fabricated metal products	227	38	6	32	189	189	(Z)	994	7	7
35	Machinery, except electrical	343	27	2	25	316	316	-	1,225	2	2
36	Electrical machinery	41	8	(Z)	8	33	33	-	261	4	4
37	Transportation equipment	287	89	31	58	198	198	(Z)	932	6	5
38	Instruments and related products	7	(Z)	(Z)	(Z)	6	6	-	204	24	25
	Utah, total	614	304	103	201	470	309	161	1,966	2	2
20	Food and kindred products	67	13	4	9	60	54	6	1,296	11	13
27	Printing and publishing	3	-	-	-	3	3	-	178	40	40
29	Petroleum and coal products	70	45	1	44	26	26	-	8,739	1	1
32	Stone, clay and glass products	61	16	1	15	45	45	-	2,853	8	5
33	Primary metal industries	284	187	89	98	251	96	155	4,769	1	1
34	Fabricated metal products	20	5	3	2	15	15	(Z)	915	1	2
35	Machinery, except electrical	16	1	(Z)	1	14	14	-	774	11	12
37	Transportation equipment	60	32	4	28	28	28	-	1,454	1	1
	Vermont, total	290	60	30	30	247	230	17	1,055	6	6
24	Lumber and wood products	36	16	4	12	23	20	2	1,379	22	24
25	Furniture and fixtures	10	2	2	(Z)	10	8	1	688	28	31
26	Paper and allied products	61	23	13	10	43	38	5	2,568	4	4
32	Stone, clay and glass products	70	15	10	5	63	55	7	2,412	13	11
35	Machinery, except electrical	28	1	1	(Z)	28	28	1	672	7	7
36	Electrical machinery	5	(Z)	(Z)	(Z)	4	4	-	336	1	1
	Virginia, total	2,378	1,025	654	371	1,920	1,354	566	1,003	2	2
20	Food and kindred products	141	9	4	5	133	132	1	624	10	10
21	Tobacco products	53	10	6	4	49	43	6	472	1	1
22	Textile mill products	193	44	42	2	166	149	17	587	3	3
23	Apparel and related products	3	(Z)	-	(Z)	3	3	-	12	2	2
24	Lumber and wood products	230	122	59	63	122	108	14	1,304	13	21
25	Furniture and fixtures	68	22	20	2	52	46	6	434	3	4
26	Paper and allied products	359	250	227	23	361	108	252	3,696	1	1
27	Printing and publishing	16	(Z)	(Z)	-	16	16	(Z)	236	8	8
28	Chemicals and allied products	682	452	259	193	422	231	191	2,771	1	1
31	Leather and leather products	8	2	1	1	6	6	1	191	1	1
32	Stone, clay and glass products	168	54	12	42	127	114	13	2,059	7	3
39	Miscellaneous manufacturing, including ordnance	42	24	15	9	72	18	55	1,337	12	10
	Washington, total	3,863	1,007	452	555	3,329	2,856	473	2,470	2	1
20	Food and kindred products	278	30	11	19	262	248	13	1,587	6	6
24	Lumber and wood products	830	437	163	274	502	393	108	2,322	6	6
25	Furniture and fixtures	8	(Z)	-	(Z)	8	8	(Z)	410	26	27
26	Paper and allied products	1,216	283	226	57	1,271	933	338	8,119	1	1
27	Printing and publishing	15	(Z)	-	(Z)	15	14	1	244	20	21
28	Chemicals and allied products	658	81	31	50	584	577	7	10,336	1	1
29	Petroleum and coal products	130	77	1	76	53	53	-	13,306	1	1
33	Primary metal industries	298	25	4	21	273	273	-	3,822	4	4

See footnotes at end of table.

TABLE 5. Horsepower of Power Equipment in Manufacturing Industries for States, by Major Industry Groups: 1962--Continued

Code	State and major industry group	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
			Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
		A	B	C	D	E	F	G	H	A	E
	Washington--Continued										
34	Fabricated metal products	50	13		13	36	36	-	993	12	12
37	Transportation equipment	192	34	7	27	158	158	-	452	3	3
39	Miscellaneous manufacturing, including ordnance	4	1	-	1	3	3	-	271	34	26
	West Virginia, total	2,445	1,096	754	342	2,007	1,349	658	2,824	1	1
20	Food and kindred products	39	5	1	4	35	35	-	1,173	23	25
22	Textile mill products	3	(Z)	(Z)	(Z)	3	3	-	251	1	1
23	Apparel and related products	(Z)	(Z)	(Z)	-	(Z)	(Z)	-		37	1
24	Lumber and wood products	48	32	12	20	21	16	5	838	11	14
26	Paper and allied products	9	3	2	1	9	6	3	674	26	24
27	Printing and publishing	18	(Z)	-	(Z)	18	18	-	879	41	41
28	Chemicals and allied products	963	425	258	167	740	538	202	6,046	1	1
31	Leather and leather products	4	2	2	-	4	2	2	474	1	1
32	Stone, clay and glass products	159	41	4	37	119	118	1	876	11	6
33	Primary metal industries	1,028	573	474	99	899	455	444	5,614	1	1
34	Fabricated metal products	59	6	(Z)	6	54	54	-	1,093	1	1
37	Transportation equipment	31	1	-	1	30	30	-	1,975	1	1
	Wisconsin, total	3,405	869	587	282	3,169	2,536	634	989	1	1
20	Food and kindred products	378	125	68	57	316	253	63	867	3	4
22	Textile mill products	14	3	2	1	13	11	1	223	12	13
24	Lumber and wood products	134	47	12	35	101	86	15	900	8	8
25	Furniture and fixtures	22	3	3	(Z)	21	19	3	397	8	8
26	Paper and allied products	865	413	350	63	831	452	379	2,934	2	2
27	Printing and publishing	39	1	1	(Z)	38	38	-	286	9	9
28	Chemicals and allied products	157	35	11	24	128	122	6	4,189	3	3
30	Rubber and plastics products, n.e.c.	63	1	-	1	62	62	1	959	8	8
31	Leather and leather products	49	9	8	1	46	40	6	353	9	10
33	Primary metal industries	322	30	13	17	305	292	13	1,377	9	8
34	Fabricated metal products	313	31	19	12	297	282	15	1,144	4	4
35	Machinery, except electrical	552	96	73	23	542	456	86	921	2	2
36	Electrical machinery	112	22	17	5	121	91	30	369	1	1
37	Transportation equipment	217	27	4	23	193	190	4	594	3	3
39	Miscellaneous manufacturing, including ordnance	32	4	(Z)	4	28	28	-	411	23	16
	Wyoming, total	169	99	15	84	85	70	15	3,531	14	11
20	Food and kindred products	17	9	7	2	17	8	9	1,533	28	29
29	Petroleum and coal products	96	66	7	59	37	31	6	6,500	1	1

Note: Detailed figures may not add to totals because of independent rounding. The State figures shown include data for all component industries whether or not separate figures are shown for the specific groups.

- Represents zero.
Z Less than half of the unit of measurement indicated.

TABLE 6. Horsepower of Power Equipment in Manufacturing Industries for SMSA's With 40,000 or More Manufacturing Employees: 1962

Standard consolidated area and standard metropolitan statistical area	Aggregate horsepower of prime movers and electric motors driven by purchased energy (1,000 hp)	Prime movers (1,000 hp)			Electric motors (1,000 hp)			Aggregate horsepower per 100 production workers	Standard error of estimates (percent) for columns--	
		Total	Driving generators	Not driving generators	Total	Driven by purchased energy	Driven by energy generated at establishments			
	A	B	C	D	E	F	G	H	A	E
STANDARD CONSOLIDATED AREAS										
Chicago, Ill.-Northwestern Indiana	8,851	2,304	1,201	1,103	8,702	6,546	2,156	1,338	1	1
New York, N.Y.-Northeastern New Jersey[1]	5,137	610	301	309	4,688	4,525	163	425	2	2
STANDARD METROPOLITAN STATISTICAL AREAS										
Akron, Ohio	745	359	282	77	538	386	152	1,493	1	2
Albany-Schenectady-Troy, N.Y.	540	179	110	69	456	361	95	1,371	2	2
Allentown-Bethlehem-Easton, Pa.-N.J.	995	443	156	287	632	552	280	1,345	2	2
Atlanta, Ga.	447	62	19	43	396	384	11	683	4	3
Baltimore, Md.	1,492	556	261	295	1,199	936	263	1,131	1	1
Birmingham, Ala.	1,003	400	301	99	807	602	204	2,336	1	1
Boston, Mass.	1,222	207	151	56	1,096	1,015	80	568	2	2
Bridgeport, Conn.	344	32	10	22	317	312	5	699	4	4
Buffalo, N.Y.	2,561	431	157	273	2,539	2,130	408	2,175	2	1
Canton, Ohio	790	159	69	90	657	631	26	2,053	1	1
Chattanooga, Tenn.	304	26	6	20	279	278	1	1,027	1	1
Chicago, Ill.	5,438	947	442	505	5,140	4,491	649	933	1	1
Cincinnati, Ohio-Ky.	908	135	54	80	806	774	32	926	1	2
Cleveland, Ohio	2,669	498	230	268	2,191	2,172	189	1,413	1	1
Columbus, Ohio	351	30	7	24	328	320	8	744	4	3
Dallas, Tex.	471	73	35	38	409	398	11	656	3	4
Dayton, Ohio	574	111	72	39	539	463	76	749	4	4
Denver, Colo.	367	67	41	26	345	300	46	717	8	8
Detroit, Mich.	4,405	1,158	762	396	3,725	3,247	478	1,405	1	1
Flint, Mich.	880	52	7	45	833	828	5	1,570	1	1
Forth Worth, Tex.	305	50	5	44	256	256	(Z)	915	5	5
Gary-Hammond-East Chicago, Ind.	3,413	1,357	759	598	3,562	2,055	1,507	4,331	1	1
Grand Rapids, Mich.	310	38	15	23	279	272	7	773	5	5
Greensboro-High Point, N.C.	137	8	1	7	129	129	-	384	5	5
Hartford, Conn.	379	28	21	8	364	351	13	657	2	2
Houston, Tex.	2,551	1,287	266	1,021	1,514	1,264	250	4,155	1	1
Indianapolis, Ind.	757	68	23	45	702	689	12	1,074	3	3
Jersey City, N.J.	500	65	41	24	454	435	19	591	4	4
Kansas City, Mo.-Kans.	731	182	59	123	598	549	49	981	2	3
Lancaster, Pa.	209	21	5	16	188	188	-	584	4	3
Lawrence-Haverhill, Mass.-N.H.	115	25	23	2	119	90	29	351	4	3
Los Angeles-Long Beach, Calif.	5,348	1,166	95	1,071	4,197	4,181	15	982	2	2
Louisville, Ky.-Ind.	229	106	95	11	175	124	52	348	3	3
Memphis, Tenn.	443	56	18	38	397	387	10	1,376	4	4
Miami, Fla.	153	22	6	16	131	131	(Z)	518	7	5
Milwaukee, Wis.	1,170	187	120	67	1,103	983	120	885	2	2
Minneapolis-St. Paul, Minn.	767	178	103	75	653	589	65	739	3	3
Nashville, Tenn.	260	49	29	20	216	211	5	926	5	5
New Haven, Conn.	268	65	43	22	225	203	22	894	4	5
New Orleans, La.	971	694	576	118	348	277	71	3,038	1	3
New York, N.Y.	2,661	288	132	155	2,460	2,373	87	340	3	3
Newark, N.J.	1,159	179	89	91	1,020	979	41	716	3	3
Paterson-Clifton-Passaic, N.J.	817	78	39	39	754	738	16	709	2	2
Philadelphia, Pa.-N.J.	3,643	964	415	549	3,606	2,679	926	944	1	1
Pittsburgh, Pa.	5,704	1,563	783	780	4,825	4,141	684	3,090	1	1
Portland, Ore.-Wash.	856	176	60	116	765	680	85	1,835	3	2
Providence, R.I.-Mass.	628	60	36	25	602	567	35	610	8	8
Reading, Pa.	275	32	11	21	243	242	1	645	2	2
Richmond, Va.	342	120	82	39	268	222	46	1,101	9	10
Rochester, N.Y.	471	203	111	93	415	268	148	664	3	3
St. Louis, Mo.-Ill.	2,039	584	279	305	1,647	1,455	192	1,176	2	2
San Diego, Calif.	177	23	2	21	155	155	-	596	3	3
San Francisco-Oakland, Calif.	2,477	523	195	328	2,084	1,953	131	1,908	1	1
San Jose, Calif.	361	39	14	25	322	322	-	791	3	3
Seattle, Wash.	773	191	81	110	639	582	57	988	4	3
Springfield-Holyoke, Mass.	358	52	40	12	337	306	31	734	6	6
Syracuse, N.Y.	519	170	108	62	435	349	86	1,251	4	4
Toledo, Ohio	561	181	44	137	407	381	26	1,439	3	4
Utica-Rome, N.Y.	280	38	13	25	249	243	6	1,003	4	3
Washington, D.C.-Md.-Va.	113	23	6	17	92	90	2	529	16	15
Wichita, Kans.	198	7	1	6	191	191	-	649	7	7
Wilmington, Del.-N.J.	470	156	31	125	615	458	18	1,799	3	2
Worcester, Mass.	325	43	28	15	316	282	34	868	4	4
York, Pa.	321	79	40	39	301	242	60	1,014	8	6
Youngstown, Ohio	1,683	480	211	269	1,419	1,203	216	2,991	1	1

- Entry represents zero.
Z Less than half of the unit of measurement indicated.
[1]Excludes Middlesex and Somerset counties, New Jersey.

TABLE 7. Horsepower of Power Equipment in Manufacturing Industries for Selected SMSA's With 40,000 or More Manufacturing Employees, by Major Industry Groups: 1962

Code	Standard consolidated area, standard metropolitan statistical area, and major industry group	Aggregate horsepower		Standard error of estimates (percent) for column A
		Total (1,000 hp)	Per 100 production workers	
		A	B	
	STANDARD CONSOLIDATED AREAS			
	Chicago, Ill.-Northwestern Indiana	8,851	1,338	1
20	Food and kindred products	533	942	5
23	Apparel and related products	5	21	10
25	Furniture and fixtures	62	394	7
26	Paper and allied products	176	840	3
27	Printing and publishing	179	361	11
28	Chemicals and allied products	584	2,689	3
29	Petroleum and coal products	660	7,521	1
32	Stone, clay and glass products	300	1,729	9
33	Primary metal industries	2,960	3,006	2
34	Fabricated metal products	636	799	2
35	Machinery, except electrical	699	1,017	3
36	Electrical machinery	391	382	6
37	Transportation equipment	320	1,163	2
39	Miscellaneous manufacturing[2]	617	3,175	10
	New York, N.Y.-Northeastern New Jersey[3]	5,137	425	2
20	Food and kindred products	551	703	4
22	Textile mill products	203	406	16
23	Apparel and related products	35	12	13
25	Furniture and fixtures	76	324	11
26	Paper and allied products	297	728	8
27	Printing and publishing	269	294	9
28	Chemicals and allied products	687	1,159	11
30	Rubber and plastics products, n.e.c.	237	837	9
31	Leather and leather products	41	119	10
32	Stone, clay and glass products	245	1,200	8
33	Primary metal industries	397	1,333	6
34	Fabricated metal products	472	620	8
35	Machinery, except electrical	350	586	8
36	Electrical machinery	301	240	6
37	Transportation equipment	256	470	8
38	Instruments and related products	108	232	7
39	Miscellaneous manufacturing[2]	215	254	9
	STANDARD METROPOLITAN STATISTICAL AREAS			
	Akron, Ohio	745	1,493	1
28	Chemicals and allied products	180	8,186	1
30	Rubber and plastics products, n.e.c.	334	1,299	2
33	Primary metal industries	9	1,103	6
34	Fabricated metal products	52	921	2
37	Transportation equipment	71	1,346	1
39	Miscellaneous manufacturing[2]	1	123	1
	Albany-Schenectady-Troy, N.Y.	540	1,371	2
22	Textile mill products	15	423	1
26	Paper and allied products	143	3,150	1
27	Printing and publishing	5	164	18
28	Chemicals and allied products	25	1,075	1
32	Stone, clay and glass products	25	791	21
33	Primary metal industries	39	1,831	1
	Allentown-Bethlehem-Easton, Pa.-N.J.	995	1,345	2
20	Food and kindred products	26	795	7
22	Textile mill products	21	291	11
23	Apparel and related products	5	25	19
26	Paper and allied products	14	812	8
32	Stone, clay and glass products	268	6,408	5
34	Fabricated metal products	63	1,638	10
35	Machinery, except electrical	98	2,734	6
36	Electrical machinery	18	284	1
	Atlanta, Ga.	447	683	4
20	Food and kindred products	57	747	9
22	Textile mill products	49	954	3
26	Paper and allied products	27	628	8
28	Chemicals and allied products	19	963	15
31	Leather and leather products	3	225	3
32	Stone, clay and glass products	20	704	7
34	Fabricated metal products	34	1,060	14
37	Transportation equipment	89	643	1
39	Miscellaneous manufacturing[2]	24	1,106	25
	STANDARD METROPOLITAN STATISTICAL AREAS--Continued			
	Baltimore, Md.	1,492	1,131	1
20	Food and kindred products	95	789	4
25	Furniture and fixtures	4	113	15
26	Paper and allied products	48	888	1
28	Chemicals and allied products	113	1,662	3
33	Primary metal industries	750	2,715	1
34	Fabricated metal products	52	592	4
35	Machinery, except electrical	56	784	4
36	Electrical machinery	34	420	1
37	Transportation equipment	136	856	1
	Birmingham, Ala.	1,003	2,336	1
27	Printing and publishing	4	289	1
28	Chemicals and allied products	21	2,260	2
32	Stone, clay and glass products	93	4,418	2
33	Primary metal industries	738	3,937	1
34	Fabricated metal products	66	1,117	4
36	Electrical machinery	2	378	1
	Boston, Mass.	1,222	568	2
20	Food and kindred products	108	672	5
26	Paper and allied products	74	827	5
27	Printing and publishing	48	294	26
29	Petroleum and coal products	20	3,101	7
30	Rubber and plastics products, n.e.c.	166	1,209	3
31	Leather and leather products	54	304	8
34	Fabricated metal products	79	603	10
35	Machinery, except electrical	148	740	6
36	Electrical machinery	87	223	2
37	Transportation equipment	133	1,248	1
38	Instruments and related products	63	650	1
	Bridgeport, Conn.	344	699	4
30	Rubber and plastics products, n.e.c.	25	1,771	11
32	Stone, clay and glass products	10	758	1
33	Primary metal industries	115	2,858	6
34	Fabricated metal products	25	515	11
35	Machinery, except electrical	45	804	14
37	Transportation equipment	49	505	1
38	Instruments and related products	9	679	1
	Buffalo, N.Y.	2,561	2,175	2
20	Food and kindred products	133	1,411	7
25	Furniture and fixtures	6	475	7
26	Paper and allied products	90	1,570	1
27	Printing and publishing	19	350	1
28	Chemicals and allied products	249	2,908	3
29	Petroleum and coal products	36	5,446	1
30	Rubber and plastics products, n.e.c.	53	1,360	1
32	Stone, clay and glass products	172	3,706	19
33	Primary metal industries	1,131	4,722	1
34	Fabricated metal products	63	892	8
35	Machinery, except electrical	100	1,221	24
36	Electrical machinery	141	1,693	1
37	Transportation equipment	331	1,523	1
	Canton, Ohio	790	2,053	1
28	Chemicals and allied products	7	2,422	2
30	Rubber and plastics products, n.e.c.	11	571	1
32	Stone, clay and glass products	47	2,066	2
33	Primary metal industries	506	3,393	2
34	Fabricated metal products	52	1,229	3
35	Machinery, except electrical	69	1,189	1
	Chattanooga, Tenn.	304	1,027	1
20	Food and kindred products	21	1,412	8
22	Textile mill products	49	619	7
26	Paper and allied products	26	2,667	1
28	Chemicals and allied products	3	109	1
32	Stone, clay and glass products	33	1,596	1
33	Primary metal industries	38	1,424	1
34	Fabricated metal products	31	624	19
35	Machinery, except electrical	7	628	13

See footnotes at end of table.

TABLE 7. Horsepower of Power Equipment in Manufacturing Industries for Selected SMSA's With 40,000 or More Manufacturing Employees, by Major Industry Groups: 1962--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and major industry group	Aggregate horsepower		Standard error of estimates (percent) for column A
		Total (1,000 hp)	Per 100 production workers	
		A	B	
	STANDARD METROPOLITAN STATISTICAL AREAS--Continued			
	Chicago, Ill.	5,438	933	1
20	Food and kindred products	497	916	5
23	Apparel and related products	5	23	10
25	Furniture and fixtures	62	430	7
26	Paper and allied products	166	809	3
27	Printing and publishing	176	366	11
28	Chemicals and allied products	361	1,853	5
29	Petroleum and coal products	208	5,556	1
32	Stone, clay and glass products	207	1,335	13
33	Primary metal industries	1,537	3,081	2
34	Fabricated metal products	543	746	2
35	Machinery, except electrical	685	1,014	3
36	Electrical machinery	390	383	6
37	Transportation equipment	273	1,102	2
39	Miscellaneous manufacturing[2]	609	3,272	10
	Cincinnati, Ohio-Ky.	908	926	1
20	Food and kindred products	106	1,132	5
22	Textile mill products	2	366	1
25	Furniture and fixtures	9	333	4
26	Paper and allied products	55	1,083	1
28	Chemicals and allied products	112	1,742	1
29	Petroleum and coal products	48	4,131	1
30	Rubber and plastics products, n.e.c.	19	771	1
34	Fabricated metal products	49	487	8
35	Machinery, except electrical	97	992	4
36	Electrical machinery	18	226	1
37	Transportation equipment	170	1,146	1
	Cleveland, Ohio	2,669	1,413	1
20	Food and kindred products	72	1,115	23
22	Textile mill products	19	639	4
23	Apparel and related products	3	45	1
26	Paper and allied products	28	642	13
27	Printing and publishing	24	229	11
28	Chemicals and allied products	258	3,378	2
29	Petroleum and coal products	39	4,041	2
30	Rubber and plastics products, n.e.c.	36	1,369	8
32	Stone, clay and glass products	79	2,777	17
33	Primary metal industries	1,123	3,780	1
35	Machinery, except electrical	205	772	7
36	Electrical machinery	113	732	3
37	Transportation equipment	385	1,008	1
38	Instruments and related products	8	448	13
39	Miscellaneous manufacturing[2]	6	173	16
	Columbus, Ohio	351	744	4
20	Food and kindred products	29	814	4
26	Paper and allied products	9	1,075	4
27	Printing and publishing	3	98	1
32	Stone, clay and glass products	21	791	4
33	Primary metal industries	20	883	1
34	Fabricated metal products	54	877	8
35	Machinery, except electrical	60	1,049	2
36	Electrical machinery	33	407	5
37	Transportation equipment	60	861	2
	Dallas, Tex.	471	656	3
20	Food and kindred products	87	913	8
22	Textile mill products	4	573	1
23	Apparel and related products	3	32	25
25	Furniture and fixtures	4	216	21
27	Printing and publishing	16	271	27
28	Chemicals and allied products	29	1,870	6
34	Fabricated metal products	25	553	11
35	Machinery, except electrical	78	1,234	15
36	Electrical machinery	36	264	2
37	Transportation equipment	63	770	1
38	Instruments and related products	2	209	21
	Dayton, Ohio	574	749	4
20	Food and kindred products	26	707	28
22	Textile mill products	4	449	1
26	Paper and allied products	52	1,550	1
27	Printing and publishing	21	262	18
30	Rubber and plastics products, n.e.c.	58	971	6
32	Stone, clay and glass products	53	3,557	9
33	Primary metal industries	16	603	10
35	Machinery, except electrical	104	466	7
36	Electrical machinery	141	796	3
37	Transportation equipment	41	803	6
	Denver, Colo.	367	717	8
20	Food and kindred products	68	871	6
24	Lumber and wood products	5	1,068	1
27	Printing and publishing	9	212	18
28	Chemicals and allied products	24	3,306	1
29	Petroleum and coal products	21	4,545	1
36	Electrical machinery	3	274	10
	Detroit, Mich.	4,405	1,405	1
20	Food and kindred products	105	773	12
23	Apparel and related products	16	232	8
27	Printing and publishing	41	408	24
28	Chemicals and allied products	335	3,462	2
30	Rubber and plastics products, n.e.c.	76	1,126	5
32	Stone, clay and glass products	81	1,235	3
33	Primary metal industries	1,481	3,977	2
34	Fabricated metal products	318	991	8
35	Machinery, except electrical	380	637	8
37	Transportation equipment	1,385	1,199	1
39	Miscellaneous manufacturing[2]	19	534	26
	Flint, Mich.	880	1,570	1
34	Fabricated metal products	53	961	3
37	Transportation equipment	808	1,720	1
	Fort Worth, Tex.	305	915	5
20	Food and kindred products	72	1,349	8
26	Paper and allied products	6	815	1
27	Printing and publishing	5	422	18
29	Petroleum and coal products	8	3,704	1
31	Leather and leather products	1	256	1
33	Primary metal industries	15	1,323	9
34	Fabricated metal products	10	476	19
35	Machinery, except electrical	25	822	17
37	Transportation equipment	92	715	2
	Gary-Hammond-East Chicago, Ind.	3,413	4,331	1
20	Food and kindred products	36	1,560	3
26	Paper and allied products	10	2,309	1
28	Chemicals and allied products	223	9,973	1
29	Petroleum and coal products	452	8,983	1
32	Stone, clay and glass products	93	5,052	5
33	Primary metal industries	2,423	4,987	1
34	Fabricated metal products	93	1,361	5
37	Transportation equipment	47	1,715	1
	Grand Rapids, Mich.	310	773	5
20	Food and kindred products	17	794	19
22	Textile mill products	2	319	1
25	Furniture and fixtures	31	547	14
34	Fabricated metal products	47	733	8
36	Electrical machinery	15	506	13
39	Miscellaneous manufacturing[2]	1	186	1
	Greensboro-High Point, N.C.	137	384	5
20	Food and kindred products	10	490	25
22	Textile mill products	60	447	1
23	Apparel and related products	1	30	1
25	Furniture and fixtures	19	274	28
26	Paper and allied products	5	622	1
28	Chemicals and allied products	11	1,122	22
32	Stone, clay and glass products	10	1,650	11
34	Fabricated metal products	4	342	17
	Hartford, Conn.	379	657	2
20	Food and kindred products	8	454	19
22	Textile mill products	18	1,007	1
26	Paper and allied products	15	1,493	1

See footnotes at end of table.

TABLE 7. Horsepower of Power Equipment in Manufacturing Industries for Selected SMSA's With 40,000 or More Manufacturing Employees, by Major Industry Groups: 1962--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and major industry group	Aggregate horsepower		Standard error of estimates (percent) for column A
		Total (1,000 hp)	Per 100 production workers	
		A	B	
	STANDARD METROPOLITAN STATISTICAL AREAS--Continued			
	Hartford, Conn.--Continued			
28	Chemicals and allied products	10	1,464	1
34	Fabricated metal products	19	665	12
35	Machinery, except electrical	92	700	7
36	Electrical machinery	7	211	1
	Houston, Tex.	2,551	4,155	1
20	Food and kindred products	84	1,422	14
24	Lumber and wood products	5	608	14
26	Paper and allied products	98	3,848	2
27	Printing and publishing	8	285	14
28	Chemicals and allied products	719	11,373	1
29	Petroleum and coal products	1,014	14,914	1
30	Rubber and plastics products, n.e.c.	12	1,042	11
32	Stone, clay and glass products	121	3,925	7
33	Primary metal industries	242	3,836	1
34	Fabricated metal products	96	1,145	11
35	Machinery, except electrical	124	1,255	4
	Indianapolis, Ind.	757	1,074	3
20	Food and kindred products	75	1,124	24
27	Printing and publishing	12	359	20
32	Stone, clay and glass products	17	1,345	15
33	Primary metal industries	60	2,397	3
35	Machinery, except electrical	64	789	8
36	Electrical machinery	42	329	2
37	Transportation equipment	309	1,544	3
39	Miscellaneous manufacturing[2]	1	101	27
	Jersey City, N.J.	500	591	4
20	Food and kindred products	60	821	11
25	Furniture and fixtures	4	235	15
26	Paper and allied products	27	647	1
27	Printing and publishing	10	370	15
28	Chemicals and allied products	53	1,003	5
31	Leather and leather products	3	134	22
33	Primary metal industries	78	2,651	1
34	Fabricated metal products	41	983	18
35	Machinery, except electrical	54	788	7
36	Electrical machinery	34	217	1
39	Miscellaneous manufacturing[2]	12	314	22
	Kansas City, Mo.-Kans.	731	981	2
20	Food and kindred products	128	1,113	11
26	Paper and allied products	24	719	2
27	Printing and publishing	18	309	21
28	Chemicals and allied products	36	1,284	12
32	Stone, clay and glass products	58	1,687	1
33	Primary metal industries	134	3,032	1
34	Fabricated metal products	43	974	16
37	Transportation equipment	53	486	3
	Lancaster, Pa.	209	584	4
20	Food and kindred products	30	1,091	13
22	Textile mill products	3	185	15
31	Leather and leather products	2	73	1
32	Stone, clay and glass products	14	978	32
34	Fabricated metal products	26	700	4
35	Machinery, except electrical	16	461	16
36	Electrical machinery	9	269	4
	Lawrence-Haverhill, Mass.-N.H.	115	351	4
22	Textile mill products	22	748	4
26	Paper and allied products	34	1,907	1
30	Rubber and plastics products, n.e.c.	10	742	26
31	Leather and leather products	10	113	2
35	Machinery, except electrical	6	560	1
	Los Angeles-Long Beach, Calif.	5,348	982	2
20	Food and kindred products	346	1,013	10
22	Textile mill products	11	330	11
23	Apparel and related products	9	22	27
25	Furniture and fixtures	74	422	13
26	Paper and allied products	174	1,494	8
27	Printing and publishing	73	317	13
	STANDARD METROPOLITAN STATISTICAL AREAS--Continued			
	Los Angeles-Long Beach, Calif.--Continued			
28	Chemicals and allied products	326	2,619	3
29	Petroleum and coal products	740	10,411	1
30	Rubber and plastics products, n.e.c.	214	1,155	12
32	Stone, clay and glass products	217	1,326	9
34	Fabricated metal products	321	687	6
35	Machinery, except electrical	330	735	12
36	Electrical machinery	724	950	1
37	Transportation equipment	588	672	3
38	Instruments and related products	45	207	15
39	Miscellaneous manufacturing[2]	297	604	11
	Louisville, Ky.-Ind.	229	348	3
20	Food and kindred products	84	997	2
21	Tobacco products	45	699	11
25	Furniture and fixtures	11	412	3
26	Paper and allied products	6	492	5
27	Printing and publishing	13	298	1
28	Chemicals and allied products	164	2,861	12
32	Stone, clay and glass products	101	4,884	4
34	Fabricated metal products	78	1,210	3
35	Machinery, except electrical	69	937	7
	Memphis, Tenn.	443	1,376	4
20	Food and kindred products	98	1,934	15
24	Lumber and wood products	35	855	7
25	Furniture and fixtures	7	338	16
26	Paper and allied products	60	2,171	1
28	Chemicals and allied products	86	3,603	7
35	Machinery, except electrical	22	845	3
36	Electrical machinery	3	206	1
	Miami, Fla.	153	518	7
20	Food and kindred products	23	624	5
25	Furniture and fixtures	5	135	19
27	Printing and publishing	16	669	19
37	Transportation equipment	5	470	1
	Milwaukee, Wis.	1,170	885	2
20	Food and kindred products	124	908	3
22	Textile mill products	2	171	14
24	Lumber and wood products	6	520	24
25	Furniture and fixtures	2	182	26
26	Paper and allied products	24	823	18
27	Printing and publishing	20	345	12
31	Leather and leather products	36	782	18
33	Primary metal industries	215	1,550	6
35	Machinery, except electrical	349	1,067	1
36	Electrical machinery	69	400	1
37	Transportation equipment	53	405	1
38	Instruments and related products	21	463	1
	Minneapolis-St. Paul, Minn.	767	739	3
20	Food and kindred products	176	1,320	3
22	Textile mill products	2	195	1
23	Apparel and related products	1	21	1
24	Lumber and wood products	22	837	23
26	Paper and allied products	55	1,312	1
28	Chemicals and allied products	47	1,842	10
29	Petroleum and coal products	45	5,890	2
33	Primary metal industries	17	881	17
34	Fabricated metal products	67	661	12
35	Machinery, except electrical	97	628	4
37	Transportation equipment	65	998	4
39	Miscellaneous manufacturing[2]	30	333	22
	Nashville, Tenn.	260	926	5
28	Chemicals and allied products	81	3,261	1
32	Stone, clay and glass products	61	1,804	1
34	Fabricated metal products	12	700	24
36	Electrical machinery	8	330	1
	New Haven, Conn.	268	894	4
20	Food and kindred products	8	822	4
26	Paper and allied products	23	1,715	1

TABLE 7. Horsepower of Power Equipment in Manufacturing Industries for Selected SMSA's With 40,000 or More Manufacturing Employees, by Major Industry Groups: 1962--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and major industry group	Aggregate horsepower		Standard error of estimates (percent) for column A
		Total (1,000 hp)	Per 100 production workers	
		A	B	
	STANDARD METROPOLITAN STATISTICAL AREAS--Continued			
	New Haven, Conn.--Continued			
27	Printing and publishing	6	289	21
28	Chemicals and allied products	2	1,869	1
32	Stone, clay and glass products	6	1,031	14
33	Primary metal industries	63	2,218	1
34	Fabricated metal products	35	1,077	9
38	Instruments and related products	2	277	1
39	Miscellaneous manufacturing[2]	44	952	13
	New Orleans, La.	971	3,038	1
20	Food and kindred products	66	999	2
23	Apparel and related products	2	53	1
29	Petroleum and coal products	44	4,938	1
32	Stone, clay and glass products	58	2,420	1
35	Machinery, except electrical	3	397	23
37	Transportation equipment	35	669	2
	New York, N.Y.	2,661	340	3
20	Food and kindred products	365	712	4
22	Textile mill products	123	398	21
23	Apparel and related products	22	9	15
25	Furniture and fixtures	66	386	11
26	Paper and allied products	102	439	8
27	Printing and publishing	220	283	9
28	Chemicals and allied products	298	1,391	11
30	Rubber and plastics products, n.e.c.	125	866	14
31	Leather and leather products	29	112	15
32	Stone, clay and glass products	116	1,290	15
33	Primary metal industries	135	1,349	6
34	Fabricated metal products	233	541	8
35	Machinery, except electrical	154	582	13
36	Electrical machinery	152	240	6
37	Transportation equipment	219	686	8
38	Instruments and related products	85	319	13
39	Miscellaneous manufacturing[2]	161	254	9
	Newark, N.J.	1,159	716	3
20	Food and kindred products	92	701	7
22	Textile mill products	16	675	20
25	Furniture and fixtures	6	220	21
26	Paper and allied products	93	1,873	3
27	Printing and publishing	17	331	18
28	Chemicals and allied products	233	1,586	8
30	Rubber and plastics products, n.e.c.	51	952	12
31	Leather and leather products	9	238	17
33	Primary metal industries	99	1,487	6
34	Fabricated metal products	116	673	9
35	Machinery, except electrical	101	578	11
36	Electrical machinery	91	310	9
37	Transportation equipment	37	481	3
38	Instruments and related products	11	463	17
39	Miscellaneous manufacturing[2]	34	273	15
	Paterson-Clifton-Passaic, N.J.	817	709	2
20	Food and kindred products	34	679	11
22	Textile mill products	47	419	21
26	Paper and allied products	75	1,380	2
27	Printing and publishing	22	534	29
28	Chemicals and allied products	103	1,450	9
30	Rubber and plastics products, n.e.c.	63	1,020	12
33	Primary metal industries	85	2,360	6
34	Fabricated metal products	82	963	6
35	Machinery, except electrical	41	671	11
36	Electrical machinery	24	244	9
38	Instruments and related products	14	133	3
39	Miscellaneous manufacturing[2]	8	215	19
	Philadelphia, Pa.-N.J.	3,643	944	1
20	Food and kindred products	251	836	8
21	Tobacco products	4	183	1
22	Textile mill products	109	426	9
23	Apparel and related products	9	17	10
25	Furniture and fixtures	22	453	9
26	Paper and allied products	249	1,580	4
27	Printing and publishing	61	258	15
28	Chemicals and allied products	447	2,316	6
	STANDARD METROPOLITAN STATISTICAL AREAS--Continued			
	Philadelphia, Pa.-N.J.--Continued			
29	Petroleum and coal products	545	5,656	1
30	Rubber and plastics products, n.e.c.	144	1,300	6
31	Leather and leather products	17	411	23
32	Stone, clay and glass products	167	1,631	17
33	Primary metal industries	586	2,373	2
34	Fabricated metal products	382	1,112	2
35	Machinery, except electrical	244	737	4
36	Electrical machinery	123	296	3
37	Transportation equipment	195	921	3
	Pittsburgh, Pa.	5,704	3,090	1
20	Food and kindred products	76	775	5
27	Printing and publishing	9	179	25
32	Stone, clay and glass products	156	1,200	6
33	Primary metal industries	4,574	5,138	1
34	Fabricated metal products	261	1,310	5
35	Machinery, except electrical	178	1,347	3
36	Electrical machinery	70	566	5
37	Transportation equipment	74	1,575	1
38	Instruments and related products	4	200	1
39	Miscellaneous manufacturing[2]	18	512	21
	Portland, Ore.-Wash.	856	1,835	3
20	Food and kindred products	67	1,175	18
24	Lumber and wood products	138	2,103	16
25	Furniture and fixtures	14	940	26
26	Paper and allied products	390	6,611	1
28	Chemicals and allied products	17	2,144	15
29	Petroleum and coal products	4	2,000	1
32	Stone, clay and glass products	32	1,986	8
33	Primary metal industries	76	2,199	12
34	Fabricated metal products	40	1,408	13
37	Transportation equipment	24	706	11
	Providence, R.I.-Mass.	628	610	8
20	Food and kindred products	21	505	10
22	Textile mill products	108	578	17
27	Printing and publishing	3	120	1
33	Primary metal industries	110	1,316	5
34	Fabricated metal products	44	532	13
35	Machinery, except electrical	49	621	9
36	Electrical machinery	10	203	19
38	Instruments and related products	12	316	1
39	Miscellaneous manufacturing[2]	75	313	6
	Reading, Pa.	275	645	2
20	Food and kindred products	20	616	21
22	Textile mill products	11	126	20
26	Paper and allied products	7	624	12
28	Chemicals and allied products	6	968	11
31	Leather and leather products	2	108	1
32	Stone, clay and glass products	25	3,193	7
33	Primary metal industries	70	1,456	1
35	Machinery, except electrical	20	450	11
36	Electrical machinery	54	1,364	1
37	Transportation equipment	28	1,123	9
	Richmond, Va.	342	1,101	9
21	Tobacco products	38	532	1
26	Paper and allied products	37	1,282	1
28	Chemicals and allied products	132	2,500	1
	Rochester, N.Y.	471	664	3
20	Food and kindred products	56	1,054	26
22	Textile mill products	2	288	1
23	Apparel and related products	5	77	27
26	Paper and allied products	6	503	5
27	Printing and publishing	13	431	24
34	Fabricated metal products	16	563	19
35	Machinery, except electrical	45	691	5
36	Electrical machinery	34	281	25
38	Instruments and related products	224	902	1
39	Miscellaneous manufacturing[2]	7	370	12

See footnotes at end of table.

TABLE 7. Horsepower of Power Equipment in Manufacturing Industries for Selected SMSA's With 40,000 or More Manufacturing Employees, by Major Industry Groups: 1962--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and major industry group	Aggregate horsepower		Standard error of estimates (percent) for column A
		Total (1,000 hp)	Per 100 production workers	
		A	B	
	STANDARD METROPOLITAN STATISTICAL AREAS--Continued			
	St. Louis, Mo.-Ill.	2,039	1,176	2
20	Food and kindred products	184	973	2
26	Paper and allied products	47	790	7
27	Printing and publishing	45	524	12
28	Chemicals and allied products	218	1,947	1
29	Petroleum and coal products	335	9,143	10
32	Stone, clay and glass products	150	1,755	4
33	Primary metal industries	487	2,858	8
34	Fabricated metal products	90	633	2
35	Machinery, except electrical	73	602	12
36	Electrical machinery	42	385	1
37	Transportation equipment	215	720	1
39	Miscellaneous manufacturing[2]	8	108	18
	San Diego, Calif.	177	596	3
20	Food and kindred products	11	435	19
37	Transportation equipment	64	367	1
	San Francisco-Oakland, Calif.	2,477	1,908	1
20	Food and kindred products	221	912	3
25	Furniture and fixtures	15	339	16
26	Paper and allied products	160	2,429	3
27	Printing and publishing	28	227	17
28	Chemicals and allied products	228	3,584	3
29	Petroleum and coal products	420	8,883	1
30	Rubber and plastics products, n.e.c.	28	1,812	12
32	Stone, clay and glass products	126	2,261	5
33	Primary metal industries	889	9,581	2
34	Fabricated metal products	123	824	6
35	Machinery, except electrical	80	793	13
37	Transportation equipment	83	901	1
39	Miscellaneous manufacturing[2]	13	822	11
	San Jose, Calif.	361	791	3
20	Food and kindred products	78	811	13
26	Paper and allied products	26	2,022	1
34	Fabricated metal products	23	1,556	5
35	Machinery, except electrical	29	790	9
36	Electrical machinery	23	276	2
	Seattle, Wash.	773	988	4
20	Food and kindred products	94	1,489	14
24	Lumber and wood products	173	2,383	13
26	Paper and allied products	126	4,590	1
27	Printing and publishing	8	250	21
28	Chemicals and allied products	10	1,764	6
33	Primary metal industries	52	3,728	1
34	Fabricated metal products	39	1,006	15
37	Transportation equipment	188	457	3
	Springfield-Holyoke, Mass.	358	734	6
22	Textile mill products	16	526	8
26	Paper and allied products	81	1,267	1
27	Printing and publishing	6	163	16
30	Rubber and plastics products, n.e.c.	39	1,247	6
34	Fabricated metal products	28	598	21
36	Electrical machinery	6	212	7
39	Miscellaneous manufacturing[2]	18	317	9
	Syracuse, N.Y.	519	1,251	4
20	Food and kindred products	40	1,063	8
22	Textile mill products	2	1,633	1
26	Paper and allied products	99	2,663	19
27	Printing and publishing	2	138	16
28	Chemicals and allied products	130	5,021	1
32	Stone, clay and glass products	7	364	1
33	Primary metal industries	54	1,502	2
34	Fabricated metal products	28	1,310	21
35	Machinery, except electrical	74	1,381	4
36	Electrical machinery	33	330	1
37	Transportation equipment	35	1,434	1
39	Miscellaneous manufacturing[2]	2	220	1
	Toledo, Ohio	561	1,+3?	3
26	Paper and allied products	3	574	17
28	Chemicals and allied products	29	2,688	3
29	Petroleum and coal products	116	7,474	1
32	Stone, clay and glass products	29	?33	1?
33	Primary metal industries	87	?,5?3	3
34	Fabricated metal products	38	828	11
35	Machinery, except electrical	38	810	1?
37	Transportation equipment	142	1,254	1
	Utica-Rome, N.Y.	?80	1,003	4
20	Food and kindred products	13	922	13
22	Textile mill products	7	549	14
25	Furniture and fixtures	1	863	1
26	Paper and allied products	11	1,147	1
28	Chemicals and allied products	12	1,596	3
33	Primary metal industries	104	2,570	5
34	Fabricated metal products	30	1,481	7
35	Machinery, except electrical	23	608	9
39	Miscellaneous manufacturing[2]	17	630	1
	Washington, D.C.-Md.-Va.	113	5??	16
20	Food and kindred products	?7	842	1?
27	Printing and publishing	27	349	26
	Wichita, Kans.	196	649	7
20	Food and kindred products	?9	1,072	21
27	Printing and publishing	1	1??	1
34	Fabricated metal products	15	799	1?
37	Transportation equipment	103	465	1
	Wilmington, Del.-N.J.	470	1,799	3
22	Textile mill products	15	1,083	4
30	Rubber and plastics products, n.e.c.	19	??	?
34	Fabricated metal products	13	1,021	11
	Worcester, Mass.	325	868	?
22	Textile mill products	17	740	25
26	Paper and allied products	4	297	6
27	Printing and publishing	3	218	?
33	Primary metal industries	70	1,264	?
34	Fabricated metal products	113	2,766	10
35	Machinery, except electrical	43	565	4
	York, Pa.	321	1,014	?
22	Textile mill products	8	274	10
26	Paper and allied products	71	3,014	1
27	Printing and publishing	3	168	6
31	Leather and leather products	2	100	1
33	Primary metal industries	11	698	10
34	Fabricated metal products	15	598	6
35	Machinery, except electrical	71	1,510	6
36	Electrical machinery	5	694	3
	Youngstown, Ohio	1,683	2,991	1
26	Paper and allied products	1	319	1
27	Printing and publishing	2	241	7
30	Rubber and plastics products, n.e.c.	19	1,693	1
33	Primary metal industries	1,403	4,363	1
34	Fabricated metal products	94	1,755	9
35	Machinery, except electrical	28	744	4
36	Electrical machinery	20	711	1
37	Transportation equipment	57	1,713	1

[1] Represents horsepower of prime movers and of electric motors driven by purchased electricity.
[2] Includes Major Industry Group 19, "Ordnance and Accessories."
[3] Excludes Middlesex and Somerset counties, New Jersey.

Fuels and Electric Energy Consumed

Chapter 7

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FUELS AND ELECTRIC ENERGY CONSUMED

GENERAL

The manufacturing industries consume a substantial portion of the coal, coke, fuel oil, gas, and electric energy produced in the United States. These items are a source for heat and power and, except for electric energy, also represent important raw materials for further manufacture. Census statistics on quantities of fuels important in manufacturing begin with those for 1909 and were compiled in subsequent censuses of manufactures for 1914, 1919, 1929, 1937, 1939, 1947, 1954, and 1958. Data on quantities of electric energy purchased by manufacturers were first collected for the year 1929 and then for the subsequent censuses. Cost data on fuel and electric energy were first published for 1929 although some data on costs had been collected in prior censuses. Data on quantity of electric energy generated by manufacturing plants were first compiled for 1939. The data for that year also provided, for the first time, statistics on fuels and electric energy purchased for heat and power separate from those purchased as materials.

Data on total fuel cost and purchased electric energy (quantity and cost) for intercensal years 1950 to 1953, 1955 to 1957, and 1959 to 1962 appear in the annual survey of manufactures volumes. For the years 1950 to 1953, the statistics also contain the amount of electricity generated by manufacturing plants. These statistics were prepared from Federal Power Commission data. For the years 1955 to 1957, 1959 to 1961, and 1963 the data for generated electric energy exclude the amounts sold or transferred. Except for the 1950 to 1953 statistics on electricity generated, all of the intercensal statistics are estimates. A description of the sample, sampling technique, coverage, etc., for these years is included in the respective annual survey reports.

COMPARABILITY OF DATA

The 1962 fuels and electric energy data was collected as part of the 1963 Census of Manufactures. In this census about 130,000 of the approximately 310,000 manufacturing establishments were requested to complete standard report forms which contain information on fuels and electric energy. Standard forms requiring full census detail were sent to only those manufacturing plants above a given size in terms of number of employees. The numerous smaller establishments typically having less detailed records and representing a very minor portion of fuels and electric energy consumption, manufacturing output, and employment, were sent short forms limited to relatively few key items. The size cutoffs for short forms varied according to size composition of the industry so that, while the forms covered a small percentage of the industry's aggregates (employment, etc.), they did represent a much higher proportion of the number of establishments. The cutoff generally ranged from 4 to 10 employees.

The 1962 statistics represent reciprocal estimates based on reports received from approximately 61,000 establishments comprising a probability sample (see below). The sample, which was designed to provide estimates for all industry groups, included all manufacturing establishments employing 100 or more persons. In addition, the sample also covered representative smaller-sized plants. All of these respondents were requested to report figures for a standard detailed fuel inquiry; namely, separate figures for coal, coke, distillate and residual fuel oil, three specified types of gas, and for the category

"all other fuels." The inquiry on electricity, except as noted below, was similar to that for previous years.

In the 1958 Census of Manufactures, when the last survey on consumption of specified fuels was conducted, the reporting categories for oil and gas were not broken down by type of oil or gas and, in addition, the reporting categories varied by industry. Furthermore, detailed fuel data were requested only from establishments classified in the following industries: (1) Those that, when arrayed by size, accounted for 90 percent of the estimated total for the specified fuel consumed by manufacturing establishments; and (2) those for which the average fuel consumption per establishments was $100,000 or more, even if the industry total fell under the 90 percent cutoff. The list of excluded industries also comprised (1) those industries for which the number of establishments exceeded 5,000 and the 1954 fuel cost was less than $10 million, and (2) any industry for which the 1954 fuel cost was less than $250 thousand. The net effect of these and other criteria employed in compiling the 1958 data upon the statistics for specified fuels are reflected by the data shown in the category "Fuels, Not Specified by Kind." This category, which does not appear for the 1962 statistics, and in 1954 for only the Apparel (Major Group 23) and Printing, Publishing, and Allied Industries (Major Group 27), provides a measure by industries (tables 6 and 7) or by States (tables 8 and 9) of the undercoverage in the 1958 specified fuels statistics.

While the major group totals shown in table 6 have been revised to reflect changes stemming from the 1957 Standard Industrial Classification (SIC), significant differences in the fuel data since 1954 have occurred because of industry reclassifications. In 1954 and prior years, separate establishment reports were submitted for blast furnaces, and for facilities producing coke, even when such operations were conducted in a complex including steelmaking and rolling mills at the same location. Thus, the statistics for 1954 and earlier years for "purchased fuels" include information for the interplant transfers of coke, coke-oven and blast-furnace gases, and other fuels used in associated coke ovens, blast furnaces, and steel mills. Since 1954, a single report, rather than separate reports, was requested when such activities occurred at a single physical location and the quantities of such fuels are reported as "produced and consumed." It is estimated that, for 1954, the value of such interplant transfers, which are excluded for later years, was about $599 million.

The use of a single standard schedule for reporting consumption of fuels used for heat and power and as a raw material uncovered certain reporting inconsistencies by respondents. These primarily occurred in plants classified in the primary metal industries (Major Group 33). Such reports were adjusted and the items are shown in this report as "fuels consumed" so that users of the published totals for those industries for which multiple uses are common may allocate specified fuel types in accordance with their technical use.

In addition to the fuels statistics, separate figures on the quantity and cost of electric energy purchased and the quantity of electric energy generated and sold have been compiled. In 1962 and 1954, respondents were requested to report the value of electric energy generated and sold or transferred to other establishments of their company. In order to determine if reported figures for purchased electricity for 1962 and earlier years were overstated, respondents were requested in 1962 to report the quantity and cost of such interplant transfers. The amount of purchased electricity resold or transferred by manufacturing establishments totaled 2,507 million kilowatt hours valued at $24.8 million, or less than 1 percent of the figures tabulated for purchased electricity.

All of the 1958 statistics in this report have been revised to include information for manufacturing establishments located in Hawaii and Alaska. Only the 1954 U.S. totals have been adjusted to include information for establishments located in these States.

1962 Survey Sample Panel

The reporting panel for this survey is basically the same as that used for the 1962 Annual Survey of Manufactures. The annual survey panel consisted of a probability sample drawn from (a) the list of all manufacturing establishments included in the 1958 Census of Manufactures; (b) lists of new manufacturing companies obtained from the administrative records of the Social Security Administration; and (c) any new plants acquired or constructed by companies selected for the sample. (For further details, see 1962 Annual Survey of Manufactures, "Introduction.") In order to reduce the standard errors of estimates for selected industries, the Annual Survey of Manufactures panel of about 60,000 establishments was supplemented by selecting about 1,000 additional establishments classified in 14 specified industries. All of these relatively important fuel-consuming industries had relatively high sampling errors associated with their 1961 Annual Survey fuel-cost estimates. The 14 selected 4-digit industries from which establishments were chosen as a supplemental sample are as follows:

Industry	Title
2023	Condensed and Evaporated Milk
2046	Wet Corn Milling
2096	Shortening and Cooking Oils
2231	Weaving, Finishing Mills, Wool
2261	Finishing Plants, Cotton
2816	Inorganic Pigments
2952	Asphalt Felts and Coatings
3111	Leather Tanning and Finishing
3251	Brick and Structural Tile
3259	Structural Clay Products, N.E.C.
3274	Lime
3341	Secondary Nonferrous Metals
3431	Vitreous Plumbing Fixtures
3729	Aircraft Equipment, N.E.C.

Establishments classified in these industries were assigned probabilities of selection dependent on their total employment and 4-digit industry classification in 1958. Based on these probabilities, a new sample of establishments was selected independently of the Annual Survey of Manufactures panel. Those establishments in the new sample which were not already included in the annual survey panel constituted the supplementary panel. Establishments in this supplementary panel were assigned their 1958 industry and geographic codes.

In order to develop unbiased estimates for these 14 industries, composite weights were assigned to reflect that each establishment in these industries (with the exception of new manufacturing establishments which commenced operations after 1958) had a dual chance of selection, once for the Annual Survey of Manufactures, and once in the supplementary sampling operation. The formula for the weights assigned was as follows:

$$W_c = \frac{W_1 \quad W_2}{W_1 + W_2 - 1}$$

Where W_c = composite weight

W_1 = weight associated with probability of selection in Annual Survey of Manufactures

W_2 = weight associated with probability of selection in supplemental sampling operation

All establishments other than those in the supplemental panel carry the identical sample weights assigned for the Annual Survey of Manufactures. Furthermore, the geographic and industry codes also assigned in this survey are identical with those used for tabulating the 1962 Annual Survey of Manufactures. These identical characteristics of the two surveys permit the correlation of data appearing in this report with information appearing in the 1962 Annual Survey of Manufactures publications as well as with the information on horsepower of available power equipment, also tabulated from the MC-D-12 survey.

Estimating Procedure

The statistics presented in this report are reciprocal estimates obtained by inflating each establishment's reported data by its sample weight and summing the inflated figures. Algebraically these estimates may be expressed as follows:

$$X_h^1 = \sum_{i=1}^{n_h} W_{hi} X_{hi}$$

Where X_h^1 is the estimated total for the tabulation cell h

X_{hi} is the 1962 reported figure for establishment i in tabulation cell h

W_{hi} is the assigned weight for that establishment

n_h is the number of establishments in tabulation cell h

Qualifications of the Published Data

All 1962 figures published in this report should be regarded as approximate rather than exact measures. The estimates differ from the true figures because of sampling variations, reporting errors, and processing errors. Standard errors for specified cost measures are shown in tables 8, 9, and 10 and indicate the general magnitude of the sampling variations. The magnitudes of the sampling variations for total fuel costs are smaller, while those for quantities are either approximately the same or slightly larger. Specifically, the standard errors indicate the approximate range on either side of the published estimates within which a correspondingly complete census total would fall if a census were conducted under conditions that were strictly comparable with those of this survey. The estimates will differ from a complete-canvass result for reasons of sampling variation by less than (a) the percentage shown, approximately 2 times out of 3; (b) twice the percentage shown, approximately 19 times out of 20; and (c) three times the percentage shown, almost always. Estimates with a standard error exceeding 25 percent generally are not shown.

Measures of the reporting and processing errors are unavailable. However, estimates which were subject to large errors from such sources were detected and corrected in the process of Census Bureau review of the data. Other specific qualifications of the published data are indicated in the appropriate footnotes to the tables.

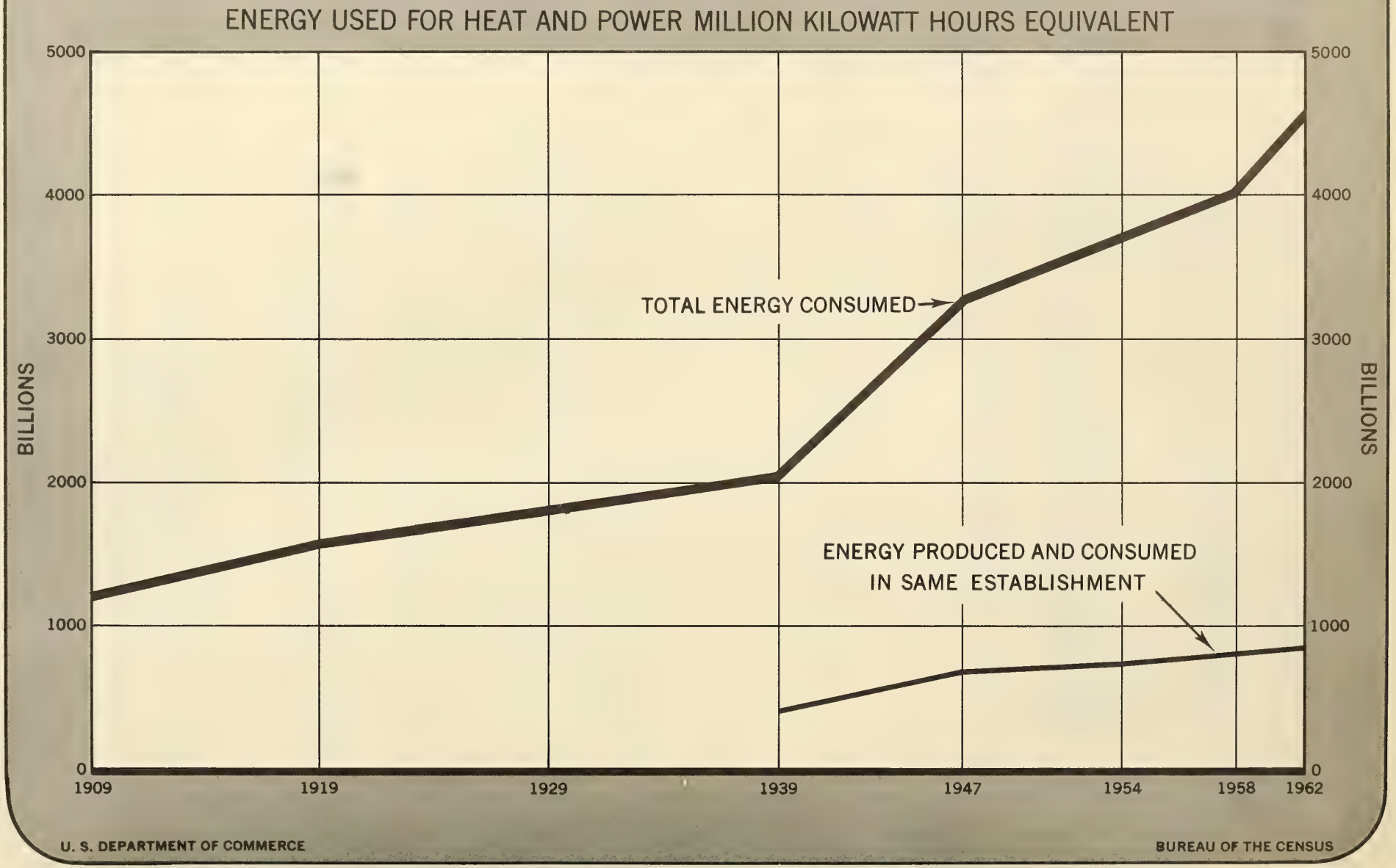
Energy Used Conversion Factors

In order to provide total figures for energy used, the fuel figures were reduced to a common unit of measure representing kilowatt-hours, the international unit of energy, and added to those for purchased electricity. These figures include an estimated kilowatt-hour equivalent for "other fuels" for which only "cost" was reported and for "undistributed" fuels cost. The conversion factors used in computing these kilowatt-hour equivalents are as follows:

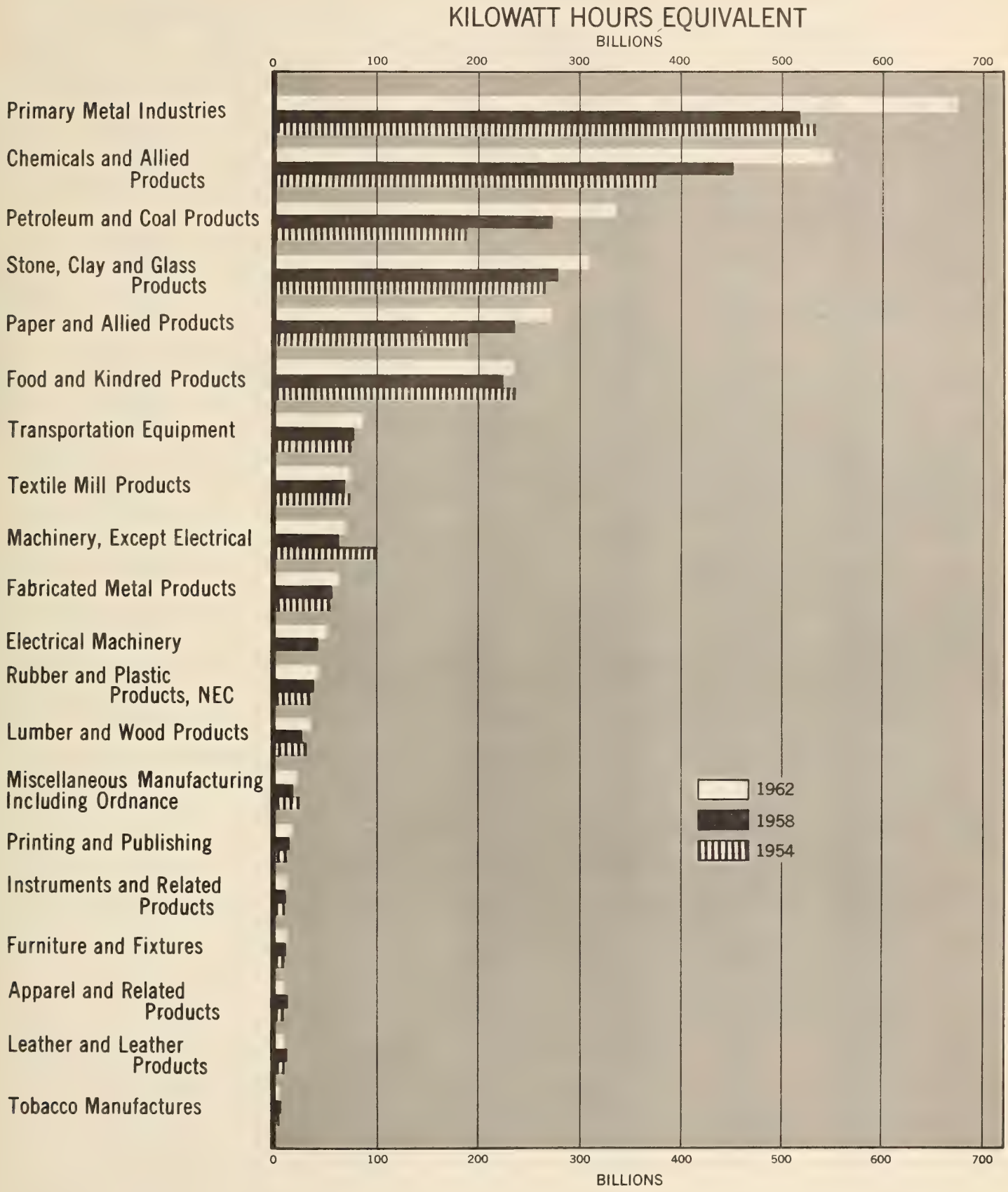
Kind of fuel	Unit of measure	kw.-hrs. equivalent
Bituminous and lignite	ton	7,677
Anthracite (1939)	ton	7,433
Coke	ton	7,618
Fuel oil	barrel	1,707
Natural gas	MCF (1000 cubic feet)	307.7
Coke-oven gas	MCF (1000 cubic feet)	161.2
Manufactured gas (1947 and 1939)	MCF (1000 cubic feet)	158.2
Other fuels (except for 1939 and 1929)	dollars	239
Other fuels (1939)	dollars	380
Other fuels (1929)	dollars	330

For "undistributed" fuels costs, the conversion was based on the types of fuels used in 1958 or 1954 in the industry for which the undistributed costs were tabulated.

ENERGY USED IN MANUFACTURING FOR THE UNITED STATES: 1909-1962



PURCHASED ENERGY USED IN MANUFACTURING FOR MAJOR INDUSTRY GROUPS: 1962, 1958 AND 1954



U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. Fuels and Electric Energy Used for Heat and Power: 1963 and Earlier Years

Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
			Purchased		Generated less sold (million kw.-hrs.)
			Quantity (million kw.-hrs.)	Cost ($1,000)	
Including establishments in Alaska and Hawaii:					
1963	6,369,689	3,409,017	332,983	2,960,672	72,949
1962	6,184,057	3,360,720	313,961	2,823,337	74,261
1961	5,825,268	3,192,612	298,325	2,632,656	68,533
1960	5,765,121	3,192,938	291,949	2,572,183	70,016
1959	5,544,620	3,082,684	281,301	2,461,936	69,291
1958	5,067,049	2,836,244	252,909	2,230,805	66,850
Excluding establishments in Alaska and Hawaii (except as otherwise noted):					
1958	5,059,993	2,832,128	252,754	2,227,865	66,504
1957	5,628,053	3,393,501	259,414	2,234,552	66,031
1956	5,467,249	3,290,084	257,126	2,177,165	66,208
1955	5,039,306	3,037,631	233,702	2,001,675	65,559
1954	4,924,729	3,199,379	187,027	1,725,350	60,639
1954 (including Alaska and Hawaii)	4,931,662	3,203,856	187,148	1,727,806	60,639
1953	5,395,438	3,675,024	(NA)	1,720,414	(NA)
1952	4,861,422	3,288,107	155,965	1,573,315	(NA)
1951	4,817,026	3,354,879	146,531	1,462,147	(NA)
1950	4,184,578	2,924,396	131,222	1,260,182	(NA)
1947	3,602,707	2,647,990	102,822	954,717	38,125
1939	(NA)	(NA)	44,847	462,310	25,671
1929	1,849,648	1,388,551	36,427	461,097	(NA)

Note: The cost of purchased fuels for 1954 and earlier years includes the value of coke, coke oven gas, and coal tar produced in coke ovens and used in associated blast furnaces and steel mills at the same location. It also includes the value of blast furnace gas produced and used at associated coke ovens at the same location. Such operations, which were reported separately in 1954 and earlier years, were treated together as single establishments after 1954. It was estimated that for 1954 the value of such interplant transfers, which are excluded for later years, was about $599 million.

(NA) Not available.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	All industries, total	1963	6,369,689	3,409,017	332,983	2,960,672	72,949
		1962	6,184,057	3,360,720	313,961	2,823,337	74,261
		1958	5,067,049	2,836,244	252,909	2,230,805	66,850
20	Food and kindred products	1963	592,662	315,700	19,473	276,962	2,676
		1962	595,281	325,336	19,055	269,945	2,442
		1958	518,207	293,899	15,778	224,308	2,266
21	Tobacco manufactures	1963	12,119	5,958	511	6,161	(D)
		1962	10,368	5,150	398	5,218	(S)
		1958	9,258	4,881	327	4,377	131
22	Textile mill products	1963	225,266	88,682	14,710	136,584	717
		1962	221,529	87,107	14,143	134,422	795
		1958	201,175	84,036	11,925	117,139	903
23	Apparel and related products	1963	63,122	17,846	2,493	45,276	16
		1962	62,714	19,298	2,218	43,416	10
		1958	51,563	15,784	1,751	35,779	13
24	Lumber and wood products	1963	183,111	115,478	4,876	67,633	1,179
		1962	151,920	87,615	4,486	64,305	1,016
		1958	119,828	70,313	3,404	49,515	966
25	Furniture and fixtures	1963	46,181	16,404	1,776	29,777	72
		1962	45,047	17,235	1,692	27,812	(S)
		1958	39,247	14,918	1,391	24,329	68
26	Paper and allied products	1963	472,486	305,464	18,475	167,022	21,097
		1962	458,755	302,885	17,052	155,870	21,165
		1958	382,727	266,444	12,538	116,283	16,978
27	Printing and publishing	1963	91,024	24,261	4,099	66,763	(D)
		1962	91,861	24,685	4,014	67,176	(S)
		1958	73,503	21,783	3,009	51,720	10
28	Chemicals and allied products	1963	1,009,119	478,471	93,498	530,648	15,996
		1962	951,252	451,627	90,355	499,625	17,870
		1958	788,152	359,504	85,564	428,648	14,513
29	Petroleum and coal products	1963	402,080	289,454	13,979	112,626	3,802
		1962	365,145	262,974	12,652	102,171	4,012
		1958	262,272	184,853	9,496	77,419	3,818
30	Rubber and plastics products, n.e.c	1963	128,332	44,858	7,024	83,474	613
		1962	126,961	45,478	6,691	81,483	(S)
		1958	97,851	39,331	4,819	58,520	641
31	Leather and leather products	1963	28,708	12,793	935	15,915	84
		1962	30,581	14,646	891	15,935	65
		1958	28,594	13,861	776	14,733	161
32	Stone, clay, and glass products	1963	575,967	403,028	16,284	172,939	1,768
		1962	555,671	388,355	15,538	167,316	1,799
		1958	468,974	338,111	12,091	130,863	2,268
33	Primary metal industries	1963	1,388,683	858,621	77,448	530,062	22,816
		1962	1,379,781	879,794	71,251	499,987	22,470
		1958	1,113,287	743,510	50,663	369,777	22,433
34	Fabricated metal products	1963	239,582	100,452	9,300	139,130	112
		1962	247,691	109,879	8,881	137,812	(S)
		1958	200,601	91,812	7,130	108,789	161
35	Machinery, except electrical	1963	259,536	105,044	11,138	154,492	592
		1962	254,685	106,862	10,330	147,823	591
		1958	210,506	95,266	7,603	115,240	496
36	Electrical machinery	1963	218,938	70,953	12,786	147,985	284
		1962r	212,595	71,235	12,025	141,360	225
		1958r	154,419	58,766	7,718	95,653	326
37	Transportation equipment	1963	314,231	112,561	18,590	201,670	308
		1962r	306,038	112,939	17,490	193,099	275
		1958r	253,192	100,192	13,356	153,000	270
38	Instruments and related products	1963	40,111	16,207	1,661	23,904	462
		1962r	39,892	17,044	1,532	22,848	434
		1958r	31,066	14,176	1,072	16,890	354
39	Miscellaneous manufacturing	1963	48,442	17,173	1,867	31,269	13
		1962	51,948	20,664	1,902	31,284	20
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
19	Ordnance and accessories	1963	29,989	9,609	2,060	20,380	31
		1962r	24,342	9,912	1,366	14,430	160
		1958	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
20	Food and kindred products	1963	592,662	315,700	19,473	276,962	2,676
		1962	595,281	325,336	19,055	269,945	2,442
		1958	518,207	293,899	15,778	224,308	2,266
201	Meat products	1963	83,979	38,659	3,145	45,320	155
		1962	77,111	36,996	2,881	40,115	(S)
		1958	68,520	35,313	2,428	33,207	168
2011	Meat slaughtering plants	1963	59,161	28,547	2,184	30,614	154
		1962	54,300	28,140	2,050	26,160	(S)
		1958	48,145	26,492	1,723	21,653	166
2013	Meat processing plants	1963	12,062	5,348	422	6,714	(D)
		1962	9,940	4,261	347	5,679	(S)
		1958	11,004	5,024	373	5,980	2
2015	Poultry dressing plants	1963	12,756	4,764	539	7,992	(D)
		1962	12,871	4,595	483	8,276	(S)
		1958	9,367	3,793	332	5,574	-
202	Dairies	1963	115,179	56,656	3,640	58,523	85
		1962	123,441	64,072	3,674	59,369	78
		1958	107,913	56,593	3,126	51,320	95
2021	Creamery butter	1963	13,525	9,089	243	4,436	17
		1962	20,549	13,613	408	6,936	12
		1958	13,958	9,333	258	4,625	18
2022	Natural and process cheese	1963	10,970	6,449	279	4,521	(D)
		1962	9,334	5,581	226	3,753	(S)
		1958	7,898	4,760	160	3,138	2
2023	Condensed and evaporated milk	1963	14,329	10,321	251	4,008	47
		1962	14,388	10,747	228	3,641	(S)
		1958	13,463	10,389	186	3,074	64
2024	Ice cream and frozen desserts	1963	12,593	2,884	633	9,709	(D)
		1962	12,305	3,124	596	9,181	-
		1958	10,862	2,775	511	8,087	2
2026	Fluid milk	1963	63,762	27,913	2,233	35,849	17
		1962	66,865	31,007	2,216	35,858	(S)
		1958	60,428	28,766	1,969	31,662	10
203	Canned and frozen foods	1963	65,156	37,358	1,976	27,798	(D)
		1962	63,678	37,720	1,867	25,958	(S)
		1958	50,226	30,721	1,302	19,505	42
2031	Canned and cured seafoods	1963	3,656	2,634	55	1,022	(D)
		1962	4,475	2,997	82	1,478	(S)
		1958	2,212	1,466	41	746	-
2032	Canned specialities	1963	8,165	5,560	210	2,605	(D)
		1962	8,534	5,932	206	2,602	(S)
		1958	6,576	4,747	144	1,829	34
2033	Canned fruits and vegetables	1963	25,757	16,861	538	8,896	(D)
		1962	25,182	16,774	560	8,408	(S)
		1958	21,466	14,477	378	6,989	-
2034	Dehydrated foods products	1963	3,851	2,597	95	1,254	-
		1962	3,381	2,234	84	1,147	-
		1958	1,887	1,171	49	716	-
2035	Pickles, sauces, and salad dressings	1963	3,836	1,842	131	1,994	(D)
		1962	4,463	2,341	125	2,122	(S)
		1958	3,010	1,570	96	1,440	-
2036	Fresh or frozen packaged fish	1963	2,662	976	96	1,686	(D)
		1962	2,859	1,201	92	1,658	(S)
		1958	1,968	800	64	1,168	-
2037	Frozen fruits and vegetables	1963	17,229	6,888	852	10,341	5
		1962	14,784	6,241	717	8,543	11
		1958	12,206	5,803	492	6,403	5
204	Grain mills	1963	71,064	32,667	2,940	38,397	891
		1962	70,537	32,236	2,969	38,301	864
		1958	55,364	25,153	2,451	30,211	724
2041	Flour mills	1963	14,347	2,231	1,079	12,116	(D)
		1962	15,071	3,027	1,115	12,044	30
		1958	13,019	2,363	1,000	10,656	27
2042	Prepared animal feeds	1963	33,243	14,313	1,207	18,930	4
		1962	32,770	13,187	1,256	19,583	(S)
		1958	22,651	8,071	1,019	14,580	5
2043	Cereal preparations	1963	4,990	2,573	237	2,417	(D)
		1962	4,514	2,269	218	2,245	(S)
		1958	3,791	2,099	151	1,692	36

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
204	Grain mills—Continued						
2044	Rice milling	1963	1,661	423	96	1,238	1
		1962	1,647	376	104	1,271	(S)
		1958	1,108	221	66	887	1
2045	Blended and prepared flour	1963	2,087	612	113	1,475	-
		1962	1,324	505	62	819	(S)
		1958	1,318	557	62	761	2
2046	Wet corn milling	1963	14,736	12,515	208	2,221	845
		1962	15,211	12,872	215	2,339	(S)
		1958	13,429	11,808	152	1,621	652
205	Bakery products	1963	52,282	30,475	1,403	21,807	1
		1962	54,858	31,853	1,509	23,005	(S)
		1958	61,505	41,524	1,274	19,981	(Z)
2051	Bread and related products	1963	43,844	25,656	1,115	18,188	(D)
		1962	47,119	27,361	1,239	19,758	(S)
		1958	53,757	36,674	1,036	17,083	-
2052	Biscuit, crackers, and cookies	1963	8,438	4,819	288	3,619	(D)
		1962	7,739	4,492	270	3,247	-
		1958	7,748	4,850	238	2,898	1
206	Sugar	1963	39,105	35,906	222	3,199	1,010
		1962	36,180	33,128	220	3,052	810
		1958	31,658	29,371	137	2,287	541
2061	Raw cane sugar	1963	5,234	3,446	129	1,788	260
		1962	4,252	2,520	130	1,732	(S)
		1958	3,616	2,386	12	1,230	8
2062	Cane sugar refining	1963	11,557	11,134	27	423	355
		1962	12,034	11,570	26	464	(S)
		1958	11,208	10,916	22	292	282
2063	Beet sugar	1963	22,314	21,326	67	988	395
		1962	19,894	19,038	65	856	279
		1958	16,834	16,069	54	765	252
207	Candy and related products	1963	16,561	6,991	727	9,570	(D)
		1962	16,661	7,252	689	9,409	(S)
		1958	14,604	6,897	530	7,707	79
2071	Confectionery products	1963	11,347	4,609	500	6,738	(D)
		1962	11,743	5,000	468	6,743	10
		1958	10,212	4,647	367	5,565	13
2072	Chocolate and cocoa products	1963	4,031	1,943	185	2,088	(D)
		1962	4,020	1,951	180	2,069	(S)
		1958	3,584	1,905	130	1,679	62
2073	Chewing gum	1963	1,183	439	42	744	(D)
		1962	898	301	41	597	(S)
		1958	808	345	33	463	4
208	Beverages	1963	59,921	34,327	1,760	25,594	323
		1962	60,903	35,433	1,712	25,470	(S)
		1958	54,110	32,325	1,482	21,785	276
2082	Malt liquors	1963	22,358	12,718	808	9,640	249
		1962	21,827	12,302	801	9,525	(S)
		1958	20,978	13,063	641	7,915	192
2083	Malt	1963	5,271	3,427	152	1,844	28
		1962	5,678	3,717	154	1,961	27
		1958	5,275	3,508	143	1,767	31
2084	Wines and brandy	1963	2,566	1,353	77	1,213	-
		1962	2,725	1,480	83	1,245	-
		1958	2,379	1,189	92	1,190	-
2085	Distilled liquor, except bandy	1963	9,851	7,005	223	2,846	41
		1962	9,049	6,431	189	2,618	(S)
		1958	8,964	6,197	222	2,767	40
2086	Bottled and canned soft drinks	1963	17,348	8,361	444	8,987	(D)
		1962	18,597	9,671	415	8,926	(S)
		1958	14,160	7,017	321	7,143	12
2087	Flavorings	1963	2,527	1,463	55	1,064	(D)
		1962	3,027	1,832	69	1,195	22
		1958	2,273	1,315	54	958	2

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
20	Food and kindred products--Continued						
209	Miscellaneous foods and kindred products....	1963	89,415	42,661	3,658	46,754	97
		1962	91,912	46,646	3,532	45,266	103
		1958	74,149	35,959	3,045	38,190	139
2091	Cottonseed oil mills.....	1963	10,360	2,225	770	8,135	(D)
		1962	10,028	2,180	748	7,848	-
		1958	7,418	1,450	550	5,968	1
2092	Soybean oil mills.....	1963	14,918	7,964	671	6,954	(D)
		1962	14,230	7,469	633	6,761	(S)
		1958	12,553	6,549	538	6,004	39
2093	Vegetable oil mills, n.e.c.....	1963	2,419	1,082	114	1,337	-
		1962	2,509	1,102	118	1,407	-
		1958	2,658	1,377	124	1,281	-
2094	Animal and marine fats and oils.....	1963	13,383	9,113	242	4,270	12
		1962	15,548	11,434	245	4,114	(S)
		1958	9,031	6,188	179	2,843	19
2095	Roasted coffee[1]	1963	5,875	3,226	207	2,649	(D)
		1962	(NA)	(NA)	(NA)	(NA)	(NA)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
2096	Shortening and cooking oils.....	1963	12,673	8,186	444	4,487	(D)
		1962	11,463	7,684	351	3,779	35
		1958	10,358	7,246	280	3,112	42
2097	Manufactured ice.....	1963	12,545	1,233	743	11,312	5
		1962	9,865	1,315	687	8,550	(S)
		1958	11,223	1,224	822	9,999	9
2098	Macaroni and spaghetti.....	1963	2,194	777	93	1,417	-
		1962	1,787	582	80	1,205	-
		1958	1,967	724	73	1,243	-
2099	Food preparations, n.e.c.[1].....	1963	15,048	8,855	373	6,193	40
		1962	24,094	13,130	636	10,964	24
		1958	17,092	9,934	449	7,158	31
21	Tobacco manufactures.....	1963	12,119	5,958	511	6,161	(D)
		1962	10,368	5,150	398	5,218	(S)
		1958	9,258	4,881	327	4,377	131
2111	Cigarettes.....	1963	6,215	3,260	308	2,955	(D)
		1962	4,662	2,522	200	2,140	(S)
		1958	4,272	2,495	166	1,777	129
2121	Cigars.....	1963	1,408	377	70	1,031	(D)
		1962	1,399	409	67	990	-
		1958	1,535	504	63	1,031	-
2131	Chewing and smoking tobacco.....	1963	699	422	15	277	(D)
		1962	906	497	22	409	(S)
		1958	797	483	22	314	(S)
2141	Tobacco stemming and redrying.....	1963	3,797	1,899	118	1,898	-
		1962	3,401	1,722	110	1,679	-
		1958	2,654	1,399	75	1,255	-
22	Textile mill products.....	1963	225,266	88,682	14,710	136,584	717
		1962	221,529	87,107	14,143	134,422	795
		1958	201,175	84,036	11,925	117,139	903
2211	Weaving mills, cotton.....	1963	57,577	12,949	5,808	44,628	342
		1962	57,740	12,670	5,905	45,070	393
		1958	55,822	13,878	5,198	41,944	372
2221	Weaving mills, synthetics.....	1963	22,761	6,366	1,959	16,395	(D)
		1962	20,747	5,904	1,759	14,843	(S)
		1958	18,007	5,357	1,324	12,650	56
2231	Weaving, finishing mills, wool.....	1963	15,769	7,977	697	7,792	44
		1962	15,624	7,913	688	7,711	(S)
		1958	16,006	8,773	594	7,233	60
2241	Narrow fabric mills.....	1963	4,084	1,534	151	2,550	(D)
		1962	4,070	1,596	148	2,474	(S)
		1958	3,529	1,426	123	2,103	1
225	Knitting mills.....	1963	27,502	12,899	1,089	14,603	(D)
		1962	28,324	13,387	1,068	14,937	(S)
		1958	21,633	10,291	822	11,342	9

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
225	Knitting mills--Continued						
2251	Women's hosiery, except socks[2]	1963	6,697	2,573	370	4,124	(D)
		1962	2,374	914	95	1,460	(S)
		1958	4,476	1,718	219	2,758	(Z)
2252	Hosiery, n.e.c.[2]	1963	3,625	2,224	110	1,601	(D)
		1962	8,889	4,215	389	4,674	(S)
		1958	5,312	2,734	216	2,578	1
2253	Knit outerwear mills	1963	5,771	2,467	190	3,304	(D)
		1962	6,565	2,804	211	3,761	(S)
		1958	4,585	2,006	134	2,579	-
2254	Knit underwear mills	1963	2,351	1,196	92	1,155	-
		1962	2,562	1,265	99	1,297	-
		1958	2,014	1,104	77	910	6
2256	Knit fabric mills	1963	8,492	4,241	318	4,251	(D)
		1962	7,395	3,861	266	3,534	(S)
		1958	4,999	2,579	171	2,420	2
2259	Knitting mills, n.e.c.	1963	366	198	8	168	-
		1962	539	328	8	211	-
		1958	247	150	5	97	-
226	Textile finishing, except wool	1963	38,431	27,818	950	10,613	214
		1962	37,290	26,241	875	11,049	193
		1958	35,909	27,285	815	8,624	294
2261	Finishing plants, cotton	1963	22,201	17,146	497	5,055	193
		1962	23,404	17,572	509	5,832	(S)
		1958	22,362	17,774	390	4,588	287
2262	Finishing plants, synthetic	1963	12,487	8,689	300	3,798	21
		1962	9,095	5,845	227	3,250	(S)
		1958	10,154	7,435	172	2,719	8
2269	Finishing plants, n.e.c.	1963	3,743	1,983	153	1,760	-
		1962	4,791	2,824	139	1,967	(S)
		1958	3,393	2,076	253	1,317	-
227	Floor covering mills	1963	9,443	5,590	324	3,853	24
		1962	8,785	5,261	300	3,524	(S)
		1958	6,825	4,176	215	2,649	40
2271	Woven carpets and rugs	1963	3,367	1,831	147	1,536	(D)
		1962	3,768	2,193	150	1,575	(S)
		1958	3,926	2,524	114	1,402	35
2272	Tufted carpets and rugs	1963	5,765	3,600	170	2,165	(D)
		1962	4,493	2,754	142	1,739	(S)
		1958	2,195	1,252	83	943	3
2279	Carpets and rugs, n.e.c.	1963	311	159	7	152	(D)
		1962	524	314	(S)	(S)	(S)
		1958	704	400	18	304	1
228	Yarn and thread mills	1963	27,874	4,992	2,630	22,882	44
		1962	27,900	5,669	2,390	22,231	(S)
		1958	24,419	5,038	936	19,381	50
2281	Yarn mills, except wool	1963	16,933	1,994	1,876	14,939	24
		1962	16,739	2,361	1,676	14,378	(S)
		1958	14,838	1,932	1,379	12,906	28
2282	Throwing and winding mills	1963	3,572	661	285	2,911	(D)
		1962	3,050	654	228	2,396	(S)
		1958	3,086	658	217	2,428	1
2283	Wool yarn mills	1963	4,322	1,272	258	3,050	(D)
		1962	5,209	1,622	291	3,587	(S)
		1958	3,559	1,217	163	2,342	2
2284	Thread mills	1963	3,047	1,065	212	1,982	(D)
		1962	2,902	1,032	195	1,870	17
		1958	2,936	1,231	177	1,705	19
229	Miscellaneous textile goods	1963	21,825	8,557	1,101	13,268	14
		1962	21,049	8,466	1,009	12,583	(S)
		1958	19,020	7,809	897	11,211	22
2291	Felt goods, n.e.c.	1963	2,184	1,151	74	1,033	(D)
		1962	1,902	979	55	923	(S)
		1958	1,679	919	49	760	2
2292	Lace goods	1963	799	408	21	391	1
		1962	1,156	6[illegible]	28	519	(S)
		1958	973	527	24	446	-

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
229	Miscellaneous textile goods--Continued						
2293	Padding and upholstery filling	1963	2,078	883	69	1,195	(D)
		1962	1,932	757	65	1,175	-
		1958	2,004	891	66	1,113	2
2294	Processed textile waste	1963	1,565	483	63	1,082	(D)
		1962	1,832	524	78	1,308	(S)
		1958	1,181	467	38	714	-
2295	Coated fabric, not rubberized	1963	5,332	2,726	181	2,606	(D)
		1962	5,522	3,147	151	2,375	(S)
		1958	3,582	1,978	94	1,604	6
2296	Tire cord and fabric	1963	3,568	465	402	3,103	-
		1962	3,635	472	385	3,163	-
		1958	3,666	422	393	3,244	4
2297	Scouring and combing plants	1963	2,343	1,188	81	1,155	3
		1962	1,968	962	75	1,006	(S)
		1958	2,282	1,350	60	932	7
2298	Cordage and twine	1963	1,787	458	103	1,329	-
		1962	1,375	358	82	1,017	-
		1958	1,785	524	93	1,261	-
2299	Textile goods, n.e.c.	1963	2,169	795	107	1,374	(D)
		1962	1,727	630	90	1,097	-
		1958	1,868	731	79	1,137	1
23	Apparel and related products	1963	63,122	17,846	2,493	45,276	16
		1962	62,714	19,298	2,218	43,416	10
		1958	51,563	15,784	1,751	35,779	13
2311	Men's and boys' suits and coats	1963	5,612	2,158	200	3,454	(D)
		1962	6,321	2,543	192	3,778	(S)
		1958	4,846	1,981	140	2,865	(Z)
232	Men's and boys' furnishings	1963	11,103	3,517	404	7,586	(Z)
		1962	11,937	3,859	424	8,078	(S)
		1958	9,421	3,193	378	6,228	-
2321	Men's dress shirts and nightwear	1963	3,905	1,266	146	2,639	(D)
		1962	4,218	1,346	149	2,872	-
		1958	3,383	1,156	117	2,227	-
2322	Men's and boys' underwear	1963	495	151	16	344	-
		1962	720	293	25	427	(S)
		1958	405	126	82	279	-
2323	Men's and boys' neckwear	1963	312	58	13	254	-
		1962	415	77	(S)	(S)	-
		1958	345	68	12	277	-
2327	Separate trousers	1963	2,888	937	106	1,951	(D)
		1962	2,804	932	101	1,872	-
		1958	2,012	739	61	1,273	-
2328	Work clothing	1963	2,083	646	76	1,437	(D)
		1962	1,949	694	61	1,255	-
		1958	2,089	737	69	1,352	-
2329	Men's and boys' clothing, n.e.c.	1963	1,420	459	47	961	-
		1962	1,831	517	70	1,314	-
		1958	1,165	358	37	807	-
233	Women's and misses' outerwear	1963	20,245	4,920	825	15,325	2
		1962	18,808	4,578	681	14,230	(S)
		1958	14,305	3,340	493	10,965	-
2331	Blouses	1963	2,091	489	85	1,602	(D)
		1962	2,184	296	86	1,888	-
		1958	1,386	309	45	1,077	-
2335	Dresses	1963	10,177	2,761	404	7,416	2
		1962	8,758	1,925	324	6,833	(S)
		1958	7,002	1,476	250	5,526	638
2337	Women's suits, coats, and skirts	1963	5,446	1,036	234	4,410	(Z)
		1962	5,677	1,716	193	3,961	(S)
		1958	4,237	1,094	144	3,143	-
2339	Women's outerwear, n.e.c.	1963	2,531	634	102	1,897	(D)
		1962	2,189	641	78	1,548	-
		1958	1,622	435	54	1,187	-

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
23	Apparel and related products--Continued						
234	Women's and children's underwear	1963	4,464	1,263	181	3,201	9
		1962	4,598	1,519	165	3,079	(S)
		1958	4,142	1,296	139	2,846	-
2341	Women's and children's underwear	1963	2,912	820	122	2,092	(D)
		1962	3,081	894	122	2,187	-
		1958	2,658	774	95	1,884	-
2342	Corsets and allied garments	1963	1,552	443	59	1,109	(D)
		1962	1,517	625	44	892	(S)
		1958	1,484	522	44	962	9
235	Millinery, hats, and caps	1963	2,598	888	67	1,710	(D)
		1962	2,329	984	73	1,345	(S)
		1958	2,857	1,261	75	1,596	-
2351	Millinery	1963	1,101	180	26	921	-
		1962	870	177	38	693	-
		1958	1,190	324	41	866	-
2352	Hats and caps	1963	1,497	708	41	789	(D)
		1962	1,459	807	35	652	(S)
		1958	1,667	937	34	730	2
236	Children's outerwear	1963	3,013	647	140	2,366	1
		1962	3,289	879	114	2,410	-
		1958	2,804	695	97	2,109	-
2361	Children's dresses and blouses	1963	1,305	278	53	1,027	(D)
		1962	1,732	416	56	1,316	-
		1958	1,226	312	42	914	-
2363	Children's coats and suits	1963	583	116	27	467	-
		1962	579	154	22	425	-
		1958	556	130	19	426	-
2369	Children's outerwear, n.e.c	1963	1,125	253	60	872	(D)
		1962	978	309	36	669	-
		1958	1,022	253	37	769	-
2371	Fur goods	1963	1,193	174	56	1,019	(D)
		1962	619	153	30	466	-
		1958	1,157	284	37	873	-
238	Miscellaneous apparel	1963	2,695	796	102	1,899	(Z)
		1962	3,562	1,106	120	2,456	(S)
		1958	2,741	872	86	1,869	-
2381	Fabric dress and work gloves	1963	489	195	15	294	(D)
		1962	766	278	23	488	-
		1958	549	229	15	320	-
2384	Robes and dressing gowns	1963	456	97	18	359	(D)
		1962	(S)	(S)	(S)	(S)	(S)
		1958	414	121	14	293	-
2385	Waterproof outergarments	1963	856	255	31	601	(D)
		1962	965	247	37	718	-
		1958	671	230	19	441	2
2386	Leather and sheeplined clothing	1963	158	48	6	110	(D)
		1962	(S)	(S)	(S)	(S)	(S)
		1958	201	62	6	139	-
2387	Apparel belts	1963	375	90	20	285	-
		1962	573	121	20	452	(S)
		1958	519	126	18	393	-
2389	Apparel, n.e.c	1963	361	111	12	250	(D)
		1962	417	145	13	272	-
		1958	387	104	14	283	-
239	Fabricated textiles, n.e.c	1963	12,196	3,482	518	8,714	2
		1962	11,251	3,677	418	7,574	-
		1958	9,282	2,860	306	6,422	-
2391	Curtains and draperies	1963	1,132	190	54	942	(D)
		1962	(S)	(S)	(S)	(S)	(S)
		1958	568	175	17	393	-
2392	Housefurnishings, n.e.c	1963	3,253	1,059	130	2,194	(D)
		1962	3,065	1,005	104	2,060	-
		1958	2,721	1,067	100	1,654	-
2393	Textile bags	1963	661	283	21	378	-
		1962	997	449	30	548	-
		1958	693	264	22	429	-

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
239	Fabricated textiles, n.e.c.--Continued						
2394	Canvas products	1963	682	239	23	443	(D)
		1962	853	383	27	470	-
		1958	735	317	18	418	-
2395	Pleating and stitching	1963	1,655	330	76	1,325	(D)
		1962	(NA)	(NA)	(NA)	(NA)	(NA)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
2396	Apparel findings	1963	2,491	682	124	1,809	(D)
		1962	(NA)	(NA)	(NA)	(NA)	(NA)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
2397	Schiffli machine embroideries	1963	701	165	31	536	-
		1962	590	193	22	397	-
		1958	538	153	18	385	-
2399	Textile products, n.e.c.	1963	1,621	534	60	1,087	(D)
		1962	1,592	550	59	1,042	-
		1958	1,138	411	35	727	-
24	Lumber and wood products	1963	183,111	115,478	4,876	67,633	1,179
		1962	151,920	87,615	4,486	64,305	1,016
		1958	119,828	70,313	3,404	49,515	970
2411	Logging camps and contractors	1963	33,967	33,051	59	916	3
		1962	30,009	27,109	193	2,900	(S)
		1958	18,727	17,446	57	1,281	2
242	Sawmills and planing mills	1963	92,603	57,863	2,521	34,740	738
		1962	73,018	40,217	2,302	32,801	794
		1958	64,724	38,456	1,883	26,268	828
2421	Sawmills and planing mills	1963	86,438	55,723	2,299	30,715	641
		1962	67,639	38,181	2,115	29,458	705
		1958	60,010	36,762	1,697	23,248	771
2426	Hardwood dimension and flooring	1963	4,948	1,651	187	3,297	(D)
		1962	3,848	1,239	148	2,609	(S)
		1958	3,693	1,300	152	2,393	57
2429	Special product sawmills, n.e.c.	1963	1,217	489	35	728	(D)
		1962	(S)	(S)	(S)	(S)	(S)
		1958	1,021	394	34	627	(Z)
243	Millwork and related products	1963	29,489	11,132	1,364	18,357	107
		1962	27,319	10,254	1,332	17,065	184
		1958	20,802	7,600	979	13,202	114
2431	Millwork plants	1963	9,239	2,344	383	6,895	(D)
		1962	8,560	2,429	318	6,131	(S)
		1958	7,968	2,386	306	5,582	16
2432	Veneer and plywood plants	1963	18,038	7,688	919	10,350	93
		1962	17,000	7,080	952	9,920	(S)
		1958	11,496	4,728	623	6,768	88
2433	Prefabricated wood products	1963	2,212	1,100	62	1,112	(D)
		1962	1,759	745	62	1,014	(S)
		1958	1,338	486	50	852	10
244	Wooden containers	1963	4,408	1,310	173	3,098	7
		1962	5,398	1,659	219	3,739	10
		1958	4,530	1,276	177	3,254	8
2441	Nailed wooden boxes and shook	1963	2,420	777	92	1,643	(D)
		1962	3,239	979	138	2,260	(S)
		1958	2,731	881	104	1,850	5
2442	Wirebound boxes and crates	1963	1,166	237	52	929	(D)
		1962	1,320	418	49	902	(S)
		1958	895	160	39	735	2
2443	Veneer and plywood containers	1963	306	93	11	213	-
		1962	399	105	15	294	-
		1958	313	80	11	233	-
2445	Cooperage	1963	516	203	19	313	4
		1962	440	157	17	283	(S)
		1958	591	155	23	436	(Z)
249	Miscellaneous wood products	1963	22,644	12,122	759	10,522	323
		1962	16,176	8,376	439	7,800	(S)
		1958	10,850	5,399	306	5,451	10
2491	Wood preserving	1963	4,822	3,550	62	1,272	(Z)
		1962	4,300	3,148	60	1,152	(S)
		1958	3,904	2,938	50	966	1

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
249	Miscellaneous wood products--Continued						
2499	Wood products, n.e.c.	1963	17,822	8,572	696	9,250	323
		1962	11,876	5,228	380	6,648	(S)
		1958	6,946	2,461	256	4,485	10
25	Furniture and fixtures	1963	46,181	16,404	1,776	29,777	72
		1962	45,047	17,235	1,692	27,812	(S)
		1958	39,247	14,918	1,391	24,329	68
251	Household furniture	1963	29,497	9,481	1,185	20,016	71
		1962	30,299	10,859	1,203	19,440	(S)
		1958	26,014	9,303	975	16,711	57
2511	Wood furniture not upholstered	1963	16,252	4,595	738	11,657	66
		1962	15,609	4,777	704	10,832	(S)
		1958	13,136	4,397	540	8,739	62
2512	Wood furniture, upholstered	1963	5,541	1,840	176	3,701	3
		1962	5,639	2,275	191	3,364	(S)
		1958	4,591	1,595	159	2,996	1
2514	Metal household furniture	1963	4,393	1,793	156	2,600	(D)
		1962	4,609	1,987	157	2,622	(S)
		1958	4,977	2,051	169	2,926	-
2515	Mattresses and bedsprings	1963	3,098	1,203	105	1,895	(D)
		1962	4,047	1,704	137	2,343	(S)
		1958	3,082	1,194	100	1,888	-
2519	Household furniture, n.e.c.	1963	213	50	10	163	(D)
		1962	395	116	(S)	(S)	-
		1958	195	61	6	134	-
252	Office furniture	1963	4,739	2,156	170	2,583	1
		1962	4,056	1,885	139	2,171	(S)
		1958	3,470	1,659	113	1,811	3
2521	Wood office furniture	1963	856	325	30	531	(D)
		1962	811	290	25	521	(S)
		1958	738	299	21	439	2
2522	Metal office furniture	1963	3,883	1,831	140	2,052	(D)
		1962	3,245	1,595	115	1,650	(S)
		1958	2,732	1,360	92	1,372	(Z)
2531	Public building furniture	1963	2,697	1,021	93	1,676	-
		1962	2,708	1,062	98	1,646	-
		1958	2,155	868	71	1,287	5
254	Partitions and fixtures	1963	6,836	2,703	218	4,133	(Z)
		1962	5,725	2,473	183	3,252	-
		1958	5,066	1,990	153	3,076	3
2541	Wood partitions and fixtures [3]	1963	2,975	987	94	1,988	(D)
		1962	(3)	(3)	(3)	(3)	(3)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
2542	Metal partitions and fixtures [3]	1963	3,861	1,716	124	2,145	(D)
		1962	(3)	(3)	(3)	(3)	(3)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
259	Furniture and fixtures, n.e.c.	1963	2,412	1,043	110	1,369	(Z)
		1962	2,259	956	69	1,303	(S)
		1958	2,535	1,095	78	1,440	-
2591	Venetian blinds and shades	1963	1,351	542	66	809	-
		1962	1,266	560	40	706	-
		1958	1,383	550	46	833	-
2599	Furniture and fixtures, n.e.c.	1963	1,061	501	44	560	(D)
		1962	993	396	29	597	(S)
		1958	1,140	539	32	601	-
26	Paper and allied products	1963	472,486	305,464	18,475	167,022	21,097
		1962	458,755	302,885	17,052	155,870	21,165
		1958	382,727	266,444	12,538	116,283	16,978
2611	Pulp mills	1963	30,962	23,863	1,407	7,099	1,686
		1962	29,995	23,566	1,138	6,429	(S)
		1958	25,273	20,745	594	4,528	1,191
2621	Paper mills, except building	1963	202,602	129,503	9,089	73,099	10,340
		1962	197,513	130,424	8,294	67,089	10,844
		1958	165,949	115,643	6,181	50,306	9,188

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
26	Paper and allied products--Continued						
2631	Paperboard mills	1963	139,314	108,075	3,549	31,239	8,595
		1962	122,102	93,401	3,192	28,701	6,970
		1958	109,248	87,306	2,462	21,942	5,660
2661	Building paper and board mills	1963	22,046	11,758	1,137	10,288	120
		1962	30,732	18,163	1,420	12,569	(S)
		1958	26,468	15,307	1,210	11,161	551
264	Paper and paperboard products	1963	39,255	15,907	1,806	23,348	269
		1962	40,330	19,698	1,584	20,632	(S)
		1958	28,099	14,383	1,017	13,716	150
2641	Paper coating and glazing	1963	12,263	6,087	529	6,176	208
		1962	13,620	8,375	444	5,245	(S)
		1958	9,259	5,677	292	3,582	83
2642	Envelopes	1963	2,614	708	100	1,906	(D)
		1962	3,313	873	141	2,440	-
		1958	1,706	564	64	1,173	-
2643	Bags, except textile bags	1963	6,777	2,126	329	4,651	29
		1962	5,866	1,977	283	3,889	30
		1958	4,302	1,652	173	2,650	26
2644	Wallpaper	1963	566	284	14	282	-
		1962	222	135	4	87	-
		1958	649	380	14	269	-
2645	Die cut paper and board	1963	3,389	930	182	2,459	(D)
		1962	2,865	1,202	104	1,663	(S)
		1958	1,413	559	51	854	4
2646	Pressed and molded pulp goods	1963	5,974	2,647	305	3,327	8
		1962	5,556	2,836	235	2,720	(S)
		1958	3,905	2,131	165	1,746	10
2647	Sanitary paper products[4]	1963	3,816	1,497	228	2,319	21
		1962	(NA)	(NA)	(NA)	(NA)	(NA)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
2649	Converted paper products, n.e.c.[4]	1963	3,856	1,628	119	2,228	1
		1962	8,888	4,300	373	4,588	20
		1958	6,865	3,420	258	3,442	26
265	Paperboard containers and boxes	1963	38,307	16,358	1,487	21,949	87
		1962	38,083	17,633	1,425	20,450	128
		1958	26,979	12,370	974	14,609	96
2651	Folding paperboard boxes	1963	7,579	2,632	332	4,947	27
		1962	6,744	2,240	315	4,504	9
		1958	5,366	1,880	216	3,486	16
2652	Set-up paperboard boxes	1963	1,658	607	50	1,051	(D)
		1962	2,032	670	66	1,362	-
		1958	1,756	683	53	1,073	-
2653	Corrugated shipping containers	1963	19,355	9,924	606	9,431	23
		1962	19,746	10,996	586	8,750	12
		1958	13,276	7,288	375	5,988	37
2654	Sanitary food containers	1963	7,311	2,156	420	5,155	(D)
		1962	7,472	2,790	388	4,682	87
		1958	4,820	1,671	295	3,149	2
2655	Fiber cans, tubes, drums, etc	1963	2,404	1,039	78	1,365	(D)
		1962	2,089	937	69	1,152	20
		1958	1,761	848	56	913	41
27	Printing and publishing	1963	91,024	24,261	4,099	66,763	(D)
		1962	91,861	24,685	4,014	67,176	(S)
		1958	73,503	21,783	3,009	51,720	10
2711	Newspapers	1963	26,712	5,921	1,322	20,791	1
		1962	26,593	6,082	1,326	20,511	-
		1958	21,798	5,406	997	16,392	1
2721	Periodicals	1963	3,788	929	201	2,859	(D)
		1962	5,041	1,233	229	3,808	(S)
		1958	4,375	1,152	203	3,223	3
273	Books	1963	6,405	1,870	296	4,535	(Z)
		1962	6,078	1,671	273	4,407	-
		1958	4,720	1,404	200	3,316	(Z)

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
273	Books--Continued						
2731	Books, publishing, and printing	1963	2,335	698	110	1,637	(D)
		1962	2,553	760	107	1,793	-
		1958	1,899	539	80	1,360	-
2732	Book printing	1963	4,070	1,172	186	2,898	(D)
		1962	3,525	911	166	2,614	-
		1958	2,821	865	120	1,956	(Z)
2741	Miscellaneous publishing	1963	1,439	369	51	1,070	(D)
		1962	1,339	367	46	972	-
		1958	1,077	294	40	783	-
275	Commercial printing	1963	39,073	11,712	1,666	27,361	200
		1962	39,544	11,792	1,593	27,752	(S)
		1958	31,180	10,521	1,189	20,659	6
2751	Printing, except lithographic[5]	1963	22,874	7,613	1,024	15,261	(D)
		1962	24,109	7,826	1,013	16,283	-
		1958	20,313	7,467	786	12,846	5
2752	Printing, lithographic[5]	1963	15,018	3,707	605	11,311	(D)
		1962	14,421	3,844	536	10,577	(S)
		1958	10,073	2,774	379	7,299	(Z)
2753	Engraving and plate printing	1963	1,181	392	38	789	-
		1962	1,014	122	(S)	(S)	-
		1958	794	280	24	514	-
2761	Manifold business forms	1963	3,189	794	148	2,395	(D)
		1962	2,603	637	130	1,966	-
		1958	2,078	599	88	1,479	(Z)
2771	Greeting card manufacturing	1963	1,953	585	104	1,368	(D)
		1962	2,093	761	83	1,332	-
		1958	2,078	599	50	943	-
278	Bookbinding and related work	1963	3,385	885	125	2,500	(Z)
		1962	3,580	981	153	2,599	(S)
		1958	2,582	804	81	1,778	-
2782	Blankbooks; looseleaf binders	1963	1,503	469	52	1,034	(D)
		1962	2,148	611	95	1,537	-
		1958	1,177	383	37	794	-
2789	Bookbinding and related work	1963	1,882	416	73	1,466	(D)
		1962	1,432	370	58	1,062	(S)
		1958	1,405	421	44	984	-
279	Printing trades services	1963	5,080	1,196	187	3,884	1
		1962	4,990	1,161	181	3,829	(S)
		1958	4,227	1,085	155	3,142	-
2791	Typesetting	1963	2,227	467	85	1,760	(D)
		1962	(S)	(S)	(S)	(S)	(S)
		1958	1,381	324	53	1,057	-
2793	Photoengraving	1963	1,738	393	63	1,345	(D)
		1962	1,198	353	(S)	(S)	-
		1958	1,637	393	56	1,244	-
2794	Electrotyping and stereotyping	1963	1,115	336	39	779	(D)
		1962	990	329	31	661	-
		1958	1,209	368	45	841	-
28	Chemicals and allied products	1963	1,009,119	478,471	93,498	530,648	15,996
		1962	951,252	451,627	90,355	499,625	17,870
		1958	788,152	359,504	85,564	428,648	14,513
281	Basic chemicals	1963	760,232	331,900	83,518	428,332	12,796
		1962	715,487	311,873	81,274	403,614	14,613
		1958	598,365	236,853	79,427	361,512	11,444
2812	Alkalies and chlorine	1963	82,842	45,153	6,061	37,689	3,711
		1962	78,396	41,497	6,152	36,899	(S)
		1958	62,372	36,980	4,084	25,392	3,309
2813	Industrial gases	1963	44,019	6,920	4,334	37,099	(D)
		1962	36,977	6,217	3,499	30,760	(S)
		1958	16,736	2,647	1,706	14,089	222
2814	Cyclic (coal tar) crudes	1963	4,019	3,295	69	724	-
		1962	3,968	3,231	70	737	-
		1958	3,562	2,930	49	632	-

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
281	Basic chemicals--Continued						
2815	Intermediate coal tar products	1963	37,474	23,393	1,677	14,081	268
		1962	36,955	23,383	1,579	13,572	(S)
		1958	27,091	17,795	913	9,296	268
2816	Inorganic pigments	1963	18,059	13,073	574	4,986	(D)
		1962	20,606	14,606	601	6,000	(S)
		1958	15,494	11,664	379	3,830	151
2818	Organic chemicals, n.e.c.	1963	199,337	138,619	8,502	60,718	5,410
		1962	173,484	124,208	7,351	49,276	6,811
		1958	111,898	80,515	4,576	31,383	4,160
2819	Inorganic chemicals, n.e.c.	1963	374,482	101,447	62,303	273,035	2,953
		1962	365,101	98,731	62,022	266,370	3,459
		1958	361,112	84,293	67,717	276,819	4,802
282	Fibers, plastics, rubbers	1963	116,104	75,644	4,929	40,460	2,635
		1962	107,953	71,106	4,394	36,847	2,709
		1958	86,302	63,410	2,798	22,892	2,478
2821	Plastics materials and resins	1963	52,950	28,838	2,670	24,112	340
		1962	47,795	26,283	2,289	21,512	(S)
		1958	40,868	26,026	1,612	14,842	374
2822	Synthetic rubber	1963	16,875	9,563	960	7,312	-
		1962	16,467	9,669	902	6,798	-
		1958	9,889	5,607	606	4,282	-
2823	Cellulosic man-made fibers	1963	22,212	20,564	273	1,648	1,532
		1962	23,026	21,240	330	1,786	(S)
		1958	26,390	24,719	287	1,671	1,663
2824	Organic fibers, noncellulosic	1963	24,067	16,679	1,026	7,388	763
		1962	20,665	13,914	873	6,751	(S)
		1958	9,153	7,057	293	2,096	441
283	Drugs	1963	28,113	13,306	1,325	14,807	175
		1962	28,361	13,438	1,299	14,923	168
		1958	22,907	11,593	934	11,314	152
2831	Biological products	1963	1,271	559	56	712	-
		1962	1,344	679	48	665	-
		1958	657	309	20	348	-
2833	Medicinals and botanicals	1963	7,819	4,651	299	3,168	130
		1962	8,166	4,869	302	3,297	127
		1958	6,737	4,098	231	2,639	96
2834	Pharmaceutical preparations	1963	19,023	8,096	970	10,927	44
		1962	18,851	7,890	949	10,961	41
		1958	15,513	7,186	582	8,327	56
284	Cleaning and toilet goods	1963	23,031	13,176	703	9,855	63
		1962	22,609	13,168	621	9,441	(S)
		1958	19,202	12,489	444	6,713	125
2841	Soap and other detergents	1963	14,066	8,790	424	5,276	63
		1962	13,203	9,002	319	4,201	(S)
		1958	11,368	8,102	238	3,266	82
2842	Polishes and sanitation goods	1963	2,794	1,374	78	1,420	-
		1962	(S)	(S)	(S)	(S)	(S)
		1958	3,219	1,793	79	1,426	21
2843	Surface active agents	1963	2,394	1,543	55	851	(D)
		1962	1,790	1,189	51	601	(S)
		1958	1,659	1,166	41	493	-
2844	Toilet preparations	1963	3,777	1,469	147	2,308	(D)
		1962	3,266	1,249	119	2,017	-
		1958	2,956	1,428	86	1,528	2
2851	Paints and allied products	1963	13,546	5,841	438	7,705	4
		1962	12,480	5,463	436	7,017	(S)
		1958	11,353	5,305	361	6,048	3
2861	Gum and wood chemicals	1963	5,796	4,420	116	1,376	74
		1962	5,457	3,999	120	1,458	(S)
		1958	4,591	3,619	101	972	102
287	Agricultural chemicals	1963	27,357	12,043	1,378	15,314	91
		1962	25,350	11,976	1,185	13,374	(S)
		1958	14,865	6,138	639	8,727	53
2871	Fertilizers[6]	1963	20,996	9,127	1,177	11,869	(D)
		1962	23,052	10,923	1,079	12,129	46
		1958	12,273	4,692	559	7,581	39

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
287	Agricultural chemicals--Continued						
2872	Fertilizers, mixing only[6]	1963	3,584	1,515	107	2,069	-
		1962	(NA)	(NA)	(NA)	(NA)	(NA)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
2879	Agricultural chemicals, n.e.c.	1963	2,777	1,401	94	1,376	(D)
		1962	2,298	1,053	106	1,245	(S)
		1958	2,592	1,446	79	1,146	14
289	Miscellaneous chemical products	1963	34,940	22,141	1,090	12,799	161
		1962	32,882	20,330	1,014	12,552	(S)
		1958	30,276	19,958	853	10,318	178
2891	Glue and gelatin	1963	5,898	4,107	119	1,791	30
		1962	5,107	3,715	99	1,392	30
		1958	5,620	4,370	77	1,250	35
2892	Explosives	1963	5,923	3,813	187	2,110	(D)
		1962	4,152	2,480	140	1,672	(S)
		1958	5,974	4,009	163	1,965	15
2893	Printing ink	1963	2,262	722	89	1,540	(D)
		1962	2,451	817	73	1,634	-
		1958	1,933	675	97	1,258	-
2895	Carbon black	1963	5,881	3,118	300	2,763	(D)
		1962	5,294	2,620	287	2,674	22
		1958	3,491	1,435	233	2,056	31
2899	Chemical preparations, n.e.c.	1963	14,976	10,381	395	4,595	109
		1962	13,468	9,021	340	4,447	(S)
		1958	11,181	7,948	230	3,233	97
29	Petroleum and coal products	1963	402,080	289,454	13,979	112,626	3,802
		1962	365,145	262,974	12,652	102,171	4,012
		1958	262,272	184,853	9,496	77,419	3,818
2911	Petroleum refining	1963	370,652	267,291	13,416	103,361	3,789
		1962	336,916	242,997	12,147	93,919	(S)
		1958	240,042	168,777	9,116	71,265	3,799
295	Paving and roofing materials	1963	26,487	18,879	468	7,608	13
		1962	24,440	17,548	427	6,892	(S)
		1958	18,163	13,394	303	4,769	18
2951	Paving mixtures and blocks	1963	16,135	11,608	232	4,527	1
		1962	14,543	10,618	192	3,925	(S)
		1958	9,827	7,101	144	2,726	-
2952	Asphalt felts and coatings	1963	10,352	7,271	237	3,081	12
		1962	9,897	6,930	235	2,967	(S)
		1958	8,336	6,293	159	2,043	18
299	Petroleum and coal products, n.e.c.	1963	4,941	3,284	95	1,657	-
		1962	3,789	2,429	78	1,360	-
		1958	4,018	2,645	77	1,373	-
2992	Lubricating oils and greases	1963	2,991	1,890	60	1,101	-
		1962	1,666	965	40	701	-
		1958	2,119	1,363	39	756	-
2999	Petroleum and coal products, n.e.c.	1963	1,950	1,394	35	556	-
		1962	2,123	1,464	38	659	-
		1958	1,899	1,282	38	617	-
30	Rubber and plastics products, n.e.c.	1963	128,332	44,858	7,024	83,474	613
		1962	126,961	45,478	6,691	81,483	(S)
		1958	97,851	39,331	4,819	58,520	641
3011	Tires and inner tubes	1963	34,076	13,979	2,173	20,097	(D)
		1962	34,585	14,371	2,165	20,214	(S)
		1958	30,113	13,505	1,779	16,608	548
3021	Rubber footwear	1963	3,568	981	230	2,587	(D)
		1962	3,001	1,000	138	2,001	(S)
		1958	2,811	1,120	111	1,691	2
3031	Reclaimed rubber	1963	2,655	552	242	2,103	-
		1962	3,012	841	257	2,171	(S)
		1958	2,051	517	178	1,534	-
3069	Rubber products, n.e.c.	1963	38,765	16,108	1,833	22,657	76
		1962	38,092	15,495	1,761	22,597	87
		1958	33,786	14,689	1,416	19,097	87

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
30	Rubber and plastics products, n.e.c.--Continued						
3079	Plastics products, n.e.c.	1963	49,268	13,238	2,547	36,030	13
		1962	48,271	13,771	2,369	34,500	(S)
		1958	29,090	9,500	1,335	19,590	4
31	Leather and leather products	1963	28,708	12,793	935	15,915	84
		1962	30,581	14,646	891	15,935	65
		1958	28,594	13,861	776	14,733	161
3111	Leather tanning and finishing	1963	13,044	8,350	291	4,694	78
		1962	12,686	8,183	314	4,503	68
		1958	13,951	9,221	277	4,730	157
3121	Industrial leather belting	1963	366	139	16	227	-
		1962	(S)	(S)	(S)	(S)	-
		1958	465	202	15	263	-
3131	Footwear cut stock	1963	1,570	543	54	1,027	(D)
		1962	1,349	568	38	781	-
		1958	1,679	563	55	1,116	-
314	Shoes, except rubber	1963	10,440	2,865	443	7,575	3
		1962	11,072	3,424	378	7,648	(S)
		1958	9,291	2,891	321	6,400	4
3141	Footwear, except rubber	1963	9,895	2,718	423	7,177	(D)
		1962	10,478	3,251	357	7,227	(S)
		1958	8,777	2,718	305	6,059	4
3142	House slippers	1963	545	147	20	398	(D)
		1962	594	173	21	421	(S)
		1958	514	173	16	341	1
3151	Leather gloves	1963	284	138	7	146	-
		1962	236	112	5	124	-
		1958	275	128	6	147	-
3161	Luggage	1963	1,057	276	48	781	(D)
		1962	1,182	334	47	848	-
		1958	896	256	35	640	-
317	Purses and small leather goods	1963	1,667	389	67	1,278	3
		1962	1,867	485	70	1,382	-
		1958	1,701	486	59	1,215	-
3171	Handbags and purses	1963	929	188	39	741	(D)
		1962	1,000	254	35	746	-
		1958	814	169	27	645	-
3172	Small leather goods	1963	738	201	28	537	(D)
		1962	867	231	34	636	-
		1958	887	317	32	570	-
3199	Leather goods, n.e.c.	1963	280	93	8	187	(D)
		1962	457	192	13	265	-
		1958	323	108	9	215	-
32	Stone, clay, and glass products	1963	575,967	403,028	16,284	172,939	1,768
		1962	555,671	388,355	15,538	167,316	1,799
		1958	468,974	338,111	12,091	130,863	2,268
3211	Flat glass	1963	27,702	20,615	883	7,087	(D)
		1962	23,576	16,698	828	6,878	170
		1958	18,976	13,373	612	5,603	194
322	Pressed and blown glassware	1963	87,800	64,438	2,607	23,362	(D)
		1962	86,185	63,409	2,540	22,776	17
		1958	67,116	49,123	1,867	17,993	23
3221	Glass containers	1963	55,968	40,798	1,731	15,170	(D)
		1962	55,760	41,048	1,676	14,712	17
		1958	45,492	33,559	1,303	11,933	22
3229	Pressed and blown glass, n.e.c.	1963	31,832	23,640	876	8,192	-
		1962	30,425	22,361	863	8,064	-
		1958	21,624	15,564	564	6,060	1
3231	Products of purchased glass	1963	8,549	4,840	276	3,709	(D)
		1962	8,052	3,682	295	4,370	18
		1958	4,966	2,484	159	2,482	19

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
322	Pressed and blown glassware--Continued						
3241	Cement, hydraulic	1963	183,144	123,611	6,520	59,533	1,445
		1962	172,006	117,954	5,913	54,052	1,493
		1958	161,469	116,778	5,017	44,691	1,894
325	Structural clay products	1963	79,490	64,135	1,081	15,355	(D)
		1962	77,871	62,537	1,033	15,334	(S)
		1958	68,723	55,944	853	12,779	8
3251	Brick and structural tile	1963	43,024	34,717	582	8,307	7
		1962	43,705	35,074	568	8,631	(S)
		1958	38,241	31,116	470	7,125	4
3253	Ceramic wall and floor tile	1963	5,325	3,801	113	1,524	(D)
		1962	4,826	3,411	99	1,415	(S)
		1958	4,501	3,261	94	1,240	1
3255	Clay refractories	1963	14,636	11,644	216	2,992	(D)
		1962	14,365	11,405	215	2,960	(S)
		1958	11,925	9,514	162	2,411	2
3259	Structural clay products, n.e.c	1963	16,505	13,973	170	2,532	1
		1962	14,975	12,647	151	2,328	(S)
		1958	14,047	12,053	127	1,994	1
326	Pottery and related products	1963	14,747	10,215	339	4,532	14
		1962	13,818	9,779	316	4,039	(S)
		1958	12,913	9,155	272	3,758	17
3261	Vitreous plumbing fixtures	1963	4,581	3,257	107	1,324	(D)
		1962	4,496	3,219	108	1,277	(S)
		1958	4,375	3,286	85	1,089	4
3262	Vitreous china food utensils	1963	1,658	1,261	29	397	(D)
		1962	1,611	1,208	30	403	(S)
		1958	1,720	1,284	30	436	7
3263	Fine earthenware food utensils	1963	1,851	1,348	38	503	-
		1962	2,101	1,546	41	555	-
		1958	1,655	1,159	35	496	-
3264	Porcelain electrical supplies	1963	3,624	2,277	106	1,347	(D)
		1962	2,997	1,895	94	1,102	6
		1958	2,698	1,788	72	910	6
3269	Pottery products, n.e.c	1963	3,033	2,072	60	961	-
		1962	2,613	1,911	43	702	-
		1958	2,465	1,638	50	827	-
327	Concrete and plaster products	1963	108,816	78,242	1,961	30,574	(D)
		1962	106,252	75,254	2,061	30,998	(S)
		1958	81,316	58,106	1,459	23,210	15
3271	Concrete block and brick	1963	11,065	7,048	199	4,017	(Z)
		1962	14,425	9,453	268	4,972	-
		1958	8,549	5,218	167	3,331	3
3272	Concrete products	1963	14,227	9,350	265	4,877	(Z)
		1962	14,082	8,804	243	5,278	(S)
		1958	10,707	6,794	194	3,913	-
3273	Ready Mixed concrete	1963	39,191	29,185	494	10,006	1
		1962	38,467	28,436	626	10,031	(S)
		1958	24,353	17,650	326	6,703	-
3274	Lime	1963	25,692	20,999	402	4,693	(D)
		1962	21,306	17,296	355	4,010	-
		1958	22,112	18,504	295	3,608	10
3275	Gypsum products	1963	18,641	11,660	601	6,981	(D)
		1962	17,972	11,265	570	6,707	(S)
		1958	15,334	9,741	475	5,593	1
3281	Cut stone and stone products	1963	5,107	1,698	227	3,409	(D)
		1962	4,999	1,708	195	3,291	(S)
		1958	3,913	1,809	123	2,104	40
329	Nonmetallic minerals products	1963	60,612	35,234	2,389	25,378	70
		1962	62,912	37,334	2,357	25,578	75
		1958	49,581	31,339	1,729	18,242	57
3291	Abrasive products	1963	10,140	4,596	606	5,544	(D)
		1962	9,590	4,366	684	5,224	34
		1958	7,749	4,135	501	3,614	29
3292	Asbestos products	1963	8,576	3,670	425	4,906	23
		1962	8,765	3,799	438	4,966	(S)
		1958	8,669	4,470	368	4,199	8

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
329	Nonmetallic minerals products--Continued						
3293	Gaskets and insulations	1963	4,078	2,297	125	1,781	(D)
		1962	4,001	2,231	111	1,770	(S)
		1958	3,525	2,112	89	1,413	7
3295	Minerals, ground or treated[7]	1963	10,568	6,880	293	3,688	(D)
		1962	15,902	10,051	375	5,851	-
		1958	8,268	5,340	215	2,928	-
3296	Mineral wool[7]	1963	16,572	11,167	596	5,405	(D)
		1962	16,660	11,708	516	4,952	(S)
		1958	12,706	9,239	351	3,467	12
3297	Nonclay refractories	1963	8,604	5,320	291	3,284	-
		1962	6,800	4,443	207	2,357	-
		1958	7,367	5,487	178	2,186	-
3299	Nonmetallic products, n.e.c.	1963	2,074	1,304	53	770	(D)
		1962	1,194	736	27	458	-
		1958	991	556	28	435	-
33	Primary metal industries	1963	1,388,683	858,621	77,448	530,062	22,816
		1962	1,379,781	879,794	71,251	499,987	22,470
		1958	1,113,287	743,510	50,663	369,777	22,433
331	Steel rolling and finishing	1963	872,638	608,136	31,350	264,502	11,549
		1962	889,338	633,319	29,345	256,019	11,881
		1958	732,845	542,112	22,155	190,733	10,794
3312	Blast furnaces and steel mills	1963	798,859	579,395	24,208	219,464	8,192
		1962	809,433	597,236	22,595	212,197	(S)
		1958	676,243	520,557	16,350	155,686	8,141
3313	Electrometallurgical products	1963	41,791	12,640	5,881	29,151	3,348
		1962	48,165	20,706	5,432	27,459	(S)
		1958	30,537	8,282	4,815	22,255	2,647
3315	Steel wire drawing, etc.	1963	10,845	5,008	433	5,837	-
		1962	9,918	4,866	407	5,052	(S)
		1958	8,545	4,088	337	4,457	2
3316	Cold finishing of steel shapes	1963	10,034	5,125	403	4,909	(D)
		1962	8,998	4,575	357	4,423	9
		1958	7,123	3,647	258	3,476	1
3317	Steel pipe and tube	1963	11,109	5,968	425	5,141	(D)
		1962	12,824	5,936	553	6,888	(S)
		1958	10,397	5,538	395	4,859	4
332	Iron and steel foundries	1963	130,804	82,205	4,026	48,599	43
		1962	130,645	84,109	3,593	46,536	35
		1958	100,108	63,434	2,647	36,674	33
3321	Gray iron foundries	1963	77,823	56,429	1,737	21,394	23
		1962	78,654	57,209	1,563	21,445	16
		1958	58,230	42,246	1,096	15,984	17
3322	Malleable iron foundries	1963	16,438	10,818	500	5,620	(D)
		1962	19,092	13,826	441	5,266	11
		1958	13,946	9,955	305	3,991	9
3323	Steel foundries	1963	36,543	14,958	1,789	21,585	(D)
		1962	32,899	13,074	1,589	19,825	9
		1958	27,930	11,232	1,246	16,698	7
333	Primary nonferrous metal	1963	192,457	69,092	33,303	123,365	11,083
		1962	177,334	65,709	30,467	111,625	10,408
		1958	132,702	57,410	19,976	75,292	11,127
3331	Primary copper	1963	27,959	20,263	958	7,696	177
		1962	27,404	19,627	969	7,777	187
		1958	21,764	16,273	742	5,491	218
3332	Primary lead	1963	6,605	5,777	97	828	(D)
		1962	5,698	4,909	95	789	(S)
		1958	8,111	7,180	113	931	33
3333	Primary zinc	1963	18,689	11,236	1,343	7,453	(D)
		1962	18,758	11,183	1,364	7,575	(S)
		1958	19,505	10,274	1,442	9,231	392
3334	Primary aluminum	1963	129,218	29,510	29,237	99,708	10,174
		1962	116,390	27,222	26,883	89,168	(S)
		1958	79,224	22,880	16,170	56,344	8,968

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
333	Primary nonferrous metal--Continued						
3339	Primary nonferrous metals, n.e.c.	1963	9,986	2,306	1,668	7,680	-
		1962	9,084	2,768	1,156	6,316	(S)
		1958	4,098	803	670	3,295	-
3341	Secondary nonferrous metals	1963	14,284	10,099	320	4,185	-
		1962	11,612	8,675	193	2,937	-
		1958	10,160	7,528	189	2,632	-
335	Nonferrous rolling and drawing	1963	102,143	43,110	6,133	59,033	131
		1962	96,420	41,585	5,586	54,835	(S)
		1958	78,849	35,688	4,239	43,161	366
3351	Copper rolling and drawing	1963	26,080	11,353	1,307	14,727	121
		1962	25,536	11,301	1,277	14,235	(S)
		1958	22,264	10,411	975	11,853	245
3352	Aluminum rolling and drawing	1963	42,862	20,598	2,843	22,264	(D)
		1962	38,791	19,047	2,496	19,744	7
		1958	30,365	14,770	1,975	15,595	35
3356	Rolling and drawing, n.e.c.	1963	10,765	4,749	643	6,016	2
		1962	10,363	4,656	593	5,707	(S)
		1958	7,960	3,729	415	4,231	7
3357	Nonferrous wire drawing, etc.	1963	22,436	6,410	1,340	16,026	(D)
		1962	21,730	6,581	1,221	15,149	(S)
		1958	18,260	6,778	874	11,482	78
336	Nonferrous foundries	1963	27,706	14,552	1,042	13,154	(D)
		1962	28,293	15,410	918	12,883	-
		1958	21,019	11,562	611	9,457	-
3361	Aluminum castings	1963	15,485	8,405	659	7,080	(D)
		1962	15,327	8,706	538	6,621	-
		1958	10,931	6,164	337	4,767	-
3362	Brass, bronze, copper castings	1963	5,925	3,267	162	2,658	-
		1962	6,558	3,589	172	2,969	-
		1958	4,718	2,805	96	1,913	-
3369	Nonferrous castings, n.e.c.	1963	6,296	2,880	221	3,416	-
		1962	6,408	3,115	208	3,293	-
		1958	5,370	2,593	178	2,777	-
339	Primary metal industries, n.e.c.	1963	48,651	31,427	1,273	17,224	8
		1962	46,139	30,987	1,148	15,152	(S)
		1958	37,604	25,776	846	11,828	114
3391	Iron and steel forgings	1963	28,919	21,085	579	7,834	(D)
		1962	31,421	23,644	554	7,777	(S)
		1958	25,995	19,390	458	6,605	8
3392	Nonferrous forgings	1963	4,219	1,917	218	2,302	-
		1962	4,545	2,077	209	2,468	-
		1958	3,955	2,118	157	1,837	-
3399	Primary metal industries, n.e.c.	1963	15,513	8,425	476	7,088	(D)
		1962	10,173	5,266	386	4,907	-
		1958	7,654	4,268	230	3,386	106
34	Fabricated metal products	1963	239,582	100,452	9,300	139,130	112
		1962	247,691	109,879	8,881	137,812	(S)
		1958	200,601	91,812	7,130	108,789	160
3411	Metal cans	1963	14,888	6,816	679	8,072	(D)
		1962	15,044	7,267	668	7,777	(S)
		1958	12,998	6,597	535	6,401	7
342	Cutlery, hand tools, hardware	1963	28,735	12,093	1,223	16,642	51
		1962	27,525	12,192	1,036	15,333	62
		1958	23,422	10,719	802	12,703	75
3421	Cutlery	1963	2,371	878	116	1,493	(D)
		1962	2,295	1,069	70	1,226	22
		1958	1,923	868	55	1,055	13
3423	Hand and edge tools	1963	6,708	3,275	218	3,433	(D)
		1962	7,860	3,942	233	3,918	6
		1958	5,581	2,845	155	2,736	34
3425	Hand saws and saw blades	1963	1,428	531	60	897	-
		1962	1,334	479	52	855	-
		1958	1,414	614	49	800	-

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
342	Cutlery, hand tools, hardware--Continued						
3429	Hardware, n.e.c.	1963	18,228	7,409	830	10,819	(D)
		1962	16,036	6,702	682	9,334	35
		1958	14,504	6,392	542	8,112	27
343	Plumbing and heating, except electric	1963	16,575	8,605	546	7,970	16
		1962	18,939	10,717	550	8,222	(S)
		1958	16,774	9,375	490	7,399	22
3431	Metal plumbing fixtures	1963	5,494	3,587	154	1,907	(D)
		1962	7,128	4,981	167	2,147	(S)
		1958	5,942	4,200	135	1,742	20
3432	Plumbing fittings, brass goods	1963	3,130	1,155	134	1,975	-
		1962	3,202	1,318	126	1,884	-
		1958	2,718	1,162	95	1,556	-
3433	Heating equipment, except electric	1963	7,951	3,863	259	4,088	(D)
		1962	8,609	4,418	258	4,191	-
		1958	8,114	4,013	259	4,101	1
344	Structural metal products	1963	57,533	23,064	2,311	34,469	(D)
		1962	60,507	25,940	2,161	34,567	(S)
		1958	51,889	22,495	1,882	29,394	45
3441	Fabricated structural steel	1963	14,308	5,499	623	8,809	(Z)
		1962	13,706	5,404	527	8,302	(S)
		1958	13,038	5,359	486	7,679	1
3442	Metal doors, sash, and trim	1963	9,539	3,519	385	6,020	(D)
		1962	9,629	4,044	371	5,585	-
		1958	7,669	3,144	267	4,525	-
3443	Boiler shop products	1963	16,710	7,220	685	9,490	1
		1962	17,790	8,003	676	9,787	(S)
		1958	17,759	8,219	711	9,540	37
3444	Sheet metal work	1963	10,092	4,402	299	5,690	(D)
		1962	11,361	5,247	299	6,114	(S)
		1958	7,610	3,357	225	4,253	6
3446	Architectural metal work[8]	1963	805	689	1,503	116	1
		1962	(NA)	(NA)	(NA)	(NA)	(NA)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
3449	Miscellaneous metal work[8]	1963	4,692	1,735	204	2,957	(D)
		1962	8,021	3,242	288	4,779	(S)
		1958	5,720	2,359	192	3,361	-
345	Screw machine products, bolts, etc.	1963	19,638	6,966	789	12,672	1
		1962	20,088	7,190	822	12,898	(S)
		1958	16,274	6,522	573	9,752	4
3451	Screw machine products	1963	5,775	1,508	199	4,267	(D)
		1962	6,087	1,479	262	4,608	-
		1958	4,734	1,487	164	3,247	1
3452	Bolts, nuts, rivets and washers	1963	13,863	5,458	590	8,405	1
		1962	14,001	5,711	560	8,290	(S)
		1958	11,540	5,035	409	6,505	3
3461	Metal stampings	1963	29,712	11,674	1,216	18,038	(D)
		1962	29,331	12,495	1,067	16,836	21
		1958	24,733	10,707	944	14,026	-
347	Metal services, n.e.c.	1963	27,818	12,010	901	15,808	8
		1962	27,785	12,518	837	15,267	(S)
		1958	17,684	8,052	657	9,632	2
3471	Plating and polishing	1963	20,465	7,727	721	12,738	7
		1962	20,147	8,070	661	12,077	(S)
		1958	13,057	5,428	515	7,629	2
3479	Metal coating, engraving, etc.	1963	7,353	4,283	180	3,070	1
		1962	7,638	4,448	176	3,190	(S)
		1958	4,627	2,624	142	2,003	-
3481	Fabricated wire products, n.e.c.	1963	9,361	3,649	338	5,712	(D)
		1962	11,578	4,980	384	6,598	-
		1958	8,639	3,555	292	5,084	2
349	Fabricated metal products, n.e.c.	1963	35,322	15,575	1,297	19,747	2
		1962	36,894	16,580	1,356	20,314	(S)
		1958	28,089	13,757	954	14,332	4
3491	Metal barrels, drums and pails	1963	3,644	1,679	121	1,965	-
		1962	4,096	2,077	120	2,019	-
		1958	3,139	1,539	97	1,600	-

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
349	Fabricated metal products, n.e.c.--Con.						
3492	Safes and vaults	1963	427	186	17	241	-
		1962	467	216	18	251	-
		1958	405	169	17	236	-
3493	Steel springs	1963	2,920	1,948	67	972	-
		1962	3,081	1,975	84	1,106	-
		1958	2,482	1,580	63	902	-
3494	Valves and pipe fittings	1963	17,762	7,847	666	9,915	(D)
		1962	17,843	8,220	637	9,623	(S)
		1958	14,646	7,550	487	7,096	4
3496	Collapsible tubes	1963	755	268	35	487	-
		1962	632	194	32	438	-
		1958	664	236	32	428	-
3497	Metal foil and leaf	1963	1,533	522	80	1,011	-
		1962	(S)	(S)	(S)	(S)	(S)
		1958	679	246	32	433	-
3498	Fabricated pipe and fittings	1963	2,500	1,091	79	1,409	(D)
		1962	3,126	1,352	87	1,774	-
		1958	2,787	1,155	111	1,632	-
3499	Fabricated metal products, n.e.c.	1963	5,781	2,034	231	3,747	(D)
		1962	5,759	2,121	207	3,638	(S)
		1958	3,287	1,282	115	2,005	-
35	Machinery, except electrical	1963	259,536	105,044	11,138	154,492	592
		1962	254,685	106,862	10,330	147,823	591
		1958	210,506	95,266	7,603	115,240	496
351	Engines and turbines	1963	20,600	10,888	837	9,712	210
		1962	19,391	10,577	745	8,814	(S)
		1958	17,748	11,062	509	6,686	114
3511	Steam engines and turbines	1963	9,284	6,006	309	3,278	(D)
		1962	9,714	6,423	315	3,291	(S)
		1958	9,248	7,032	174	2,216	107
3519	Internal combustion engines	1963	11,316	4,882	527	6,434	(D)
		1962	9,677	4,154	430	5,523	(S)
		1958	8,500	4,030	335	4,470	7
3522	Farm machinery and equipment	1963	24,767	14,380	738	10,387	240
		1962	23,100	13,576	682	9,524	(S)
		1958	21,858	13,401	569	8,457	210
353	Construction and like equipment	1963	40,367	14,863	2,044	25,504	12
		1962	42,246	16,223	2,025	26,023	18
		1958	34,331	14,728	1,467	19,603	17
3531	Construction machinery	1963	22,445	8,326	1,203	14,119	3
		1962	22,940	9,213	1,132	13,727	7
		1958	19,105	8,678	804	10,427	13
3532	Mining machinery and equipment	1963	3,616	1,514	141	2,102	(D)
		1962	(S)	(S)	(S)	(S)	(S)
		1958	3,002	1,351	106	1,651	4
3533	Oil field machinery	1963	5,528	1,711	326	3,817	-
		1962	5,748	2,063	320	3,685	-
		1958	5,216	1,819	308	3,397	(Z)
3534	Elevators and moving stairways	1963	1,632	597	66	1,035	(D)
		1962	1,754	669	60	1,085	(S)
		1958	1,052	427	41	625	-
3535	Conveyors	1963	3,018	1,191	110	1,827	(D)
		1962	3,054	1,238	103	1,816	-
		1958	2,724	1,213	84	1,511	-
3536	Hoists, cranes, and monorails	1963	1,605	648	67	957	(D)
		1962	1,375	543	55	832	-
		1958	1,363	577	49	786	-
3537	Industrial trucks and tractors	1963	2,523	876	130	1,647	(D)
		1962	2,307	835	106	1,472	-
		1958	1,864	660	75	1,204	-
354	Metalworking machinery	1963	44,483	15,943	1,810	28,540	13
		1962	44,740	17,040	1,707	27,700	16
		1958	34,758	13,643	1,230	21,115	16
3541	Metal-cutting machine tools	1963	10,485	3,800	425	6,685	8
		1962	9,706	3,680	400	6,026	8
		1958	8,001	3,016	299	4,985	6

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
354	Metalworking machinery--Continued						
3542	Metal-forming machine tools	1963	3,321	1,179	152	2,142	(D)
		1962	4,046	1,612	164	2,434	-
		1958	3,182	1,296	115	1,886	1
3544	Special dies and tools	1963	14,836	5,215	543	9,621	1
		1962	15,412	5,734	499	9,678	-
		1958	11,164	4,291	349	6,873	3
3545	Machine tool accessories	1963	8,318	2,290	406	6,028	1
		1962	9,005	2,810	393	6,195	(S)
		1958	6,574	2,154	271	4,420	2
3548	Metalworking machinery, n.e.c.	1963	7,523	3,459	285	4,064	(D)
		1962	6,571	3,204	251	3,367	(S)
		1958	5,837	2,886	196	2,951	4
355	Special industry machinery	1963	26,828	10,962	1,003	15,866	18
		1962	27,246	11,466	992	15,780	32
		1958	23,311	10,105	813	13,206	30
3551	Food products machinery	1963	4,309	1,636	160	2,673	-
		1962	4,835	1,896	155	2,939	(S)
		1958	3,368	1,305	110	2,063	1
3552	Textile machinery	1963	5,526	2,520	203	3,006	(D)
		1962	5,716	2,750	206	2,966	21
		1958	4,818	2,444	143	2,374	20
3553	Woodworking machinery	1963	2,316	941	100	1,375	(D)
		1962	1,816	703	90	1,113	-
		1958	1,927	812	90	1,115	(Z)
3554	Paper industries machinery	1963	3,220	1,324	122	1,896	(D)
		1962	3,263	1,404	136	1,859	(S)
		1958	2,597	1,166	92	1,431	(Z)
3555	Printing trades machinery	1963	2,795	976	101	1,819	-
		1962	3,103	1,134	109	1,969	-
		1958	2,435	968	81	1,467	-
3559	Special industry machinery, n.e.c.	1963	8,662	3,565	318	5,097	(D)
		1962	8,513	3,579	295	4,934	10
		1958	8,166	3,410	296	4,756	10
356	General industrial machinery	1963	44,842	17,877	2,047	26,965	26
		1962	42,394	17,661	1,857	24,733	(S)
		1958	35,251	15,216	1,330	20,035	31
3561	Pumps and compressors	1963	11,238	4,975	434	6,263	24
		1962	10,612	4,961	410	5,651	(S)
		1958	9,560	4,645	325	4,915	26
3562	Ball and roller bearings	1963	12,098	4,685	683	7,413	-
		1962	12,100	4,720	673	7,380	-
		1958	9,441	3,833	434	5,608	-
3564	Blowers and fans	1963	2,327	950	81	1,377	(D)
		1962	2,226	946	76	1,280	(S)
		1958	2,020	868	65	1,152	1
3565	Industrial patterns	1963	1,348	569	38	779	(D)
		1962	1,240	486	34	754	-
		1958	1,003	405	26	598	(Z)
3566	Power transmission equipment	1963	9,984	4,033	416	5,951	(D)
		1962	9,144	3,859	377	5,285	(S)
		1958	7,622	3,356	275	4,266	(Z)
3567	Industrial furnaces and ovens	1963	1,851	692	70	1,159	(D)
		1962	1,751	713	58	1,038	-
		1958	1,267	516	35	751	2
3569	General industry machines, n.e.c.	1963	5,996	1,973	326	4,023	(D)
		1962	5,321	1,976	229	3,345	(S)
		1958	4,338	1,593	170	2,745	1
357	Office machines, n.e.c.	1963	15,551	5,311	811	10,240	67
		1962	15,254	5,285	772	9,969	69
		1958	11,583	4,767	477	6,816	62
3571	Computing and related machines	1963	10,380	3,312	585	7,068	(D)
		1962	10,281	3,223	569	7,058	69
		1958	7,210	2,909	316	4,301	62
3572	Typewriters	1963	2,410	984	108	1,426	-
		1962	2,319	1,054	99	1,265	-
		1958	2,027	903	74	1,124	-

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
357	Office machines, n.e.c.--Continued						
3576	Scales and balances	1963	667	257	23	410	(D)
		1962	577	224	17	353	(S)
		1958	780	405	18	375	(Z)
3579	Office machines, n.e.c.	1963	2,094	758	95	1,336	-
		1962	2,077	784	87	1,293	-
		1958	1,566	550	69	1,016	(Z)
358	Service industry machines	1963	18,725	7,328	898	11,397	3
		1962	17,344	7,099	724	10,245	(S)
		1958	15,397	6,365	612	9,032	3
3581	Automatic vending machines	1963	2,170	957	78	1,213	(D)
		1962	1,993	946	68	1,047	-
		1958	914	352	32	562	3
3582	Commercial laundry equipment	1963	919	378	26	541	(D)
		1962	799	337	27	462	(S)
		1958	835	405	26	430	3
3585	Refrigeration machinery	1963	12,845	4,905	614	7,940	(D)
		1962	11,681	4,613	539	7,068	-
		1958	11,334	4,626	478	6,708	(Z)
3586	Measuring and dispensing pumps	1963	975	374	35	601	-
		1962	847	341	31	506	-
		1958	786	367	25	419	-
3589	Service industry machines, n.e.c.	1963	1,816	714	144	1,102	-
		1962	1,979	845	58	1,134	-
		1958	1,468	592	50	876	(Z)
3599	Miscellaneous machinery	1963	23,373	7,492	949	15,881	(D)
		1962	22,970	7,935	826	15,035	(S)
		1958	16,246	5,968	596	10,278	9
36	Electrical machinery	1963	218,938	70,953	12,786	147,985	284
		1962[r]	212,595	71,235	12,025	141,360	225
		1958[r]	154,419	58,766	7,718	95,653	326
361	Electric distribution products	1963	17,962	5,500	1,079	12,462	11
		1962	20,353	5,975	1,204	14,378	(S)
		1958	15,665	6,124	710	9,541	94
3611	Electric measuring instruments	1963	4,345	1,039	271	3,306	(D)
		1962	5,453	1,506	288	3,947	-
		1958	3,776	1,039	189	2,737	-
3612	Transformers	1963	7,126	2,372	471	4,754	(D)
		1962	8,224	2,265	597	5,959	(S)
		1958	6,768	3,237	303	3,531	89
3613	Switchgear and switchboards	1963	6,491	2,089	337	4,402	(D)
		1962	6,676	2,204	319	4,472	(S)
		1958	5,121	1,848	218	3,273	4
362	Electric industrial apparatus	1963	35,882	12,873	2,422	23,009	(D)
		1962	34,527	12,065	2,328	22,462	(S)
		1958	29,839	9,905	1,952	19,934	40
3621	Motors and generators	1963	15,404	5,376	857	10,028	(D)
		1962	15,475	5,605	832	9,870	(S)
		1958	13,376	4,491	718	8,885	40
3622	Industrial controls	1963	4,250	1,219	241	3,031	-
		1962	4,243	1,285	216	2,958	-
		1958	3,295	1,073	159	2,222	-
3623	Electric welding apparatus	1963	2,461	951	104	1,510	(D)
		1962	2,323	963	88	1,360	(S)
		1958	1,988	830	73	1,158	-
3624	Carbon and graphite products	1963	11,100	3,914	1,123	7,186	(D)
		1962	9,731	3,452	1,035	6,279	-
		1958	8,504	2,678	862	5,826	-
3629	Electric industrial goods, n.e.c.	1963	2,667	1,413	97	1,254	(D)
		1962	2,755	760	156	1,995	-
		1958	2,670	831	140	1,839	-
363	Household appliances	1963	34,664	14,513	1,772	20,151	(D)
		1962	34,415	14,716	1,718	19,699	(S)
		1958	30,753	14,315	1,408	16,438	2
3631	Household cooking equipment	1963	4,837	2,319	236	2,518	(D)
		1962	4,418	2,104	237	2,314	(S)
		1958	4,232	2,043	192	2,189	-

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
363	Household appliances--Continued						
3632	Household refrigerators	1963	12,728	5,180	738	7,548	-
		1962	11,833	4,871	690	6,962	-
		1958	11,405	5,644	573	5,761	-
3633	Household laundry equipment	1963	5,783	2,470	308	3,313	(D)
		1962	6,280	2,757	308	3,523	(S)
		1958	5,655	2,447	269	3,208	2
3634	Electric housewares and fans	1963	6,023	2,312	247	3,711	(D)
		1962	5,251	1,969	216	3,282	-
		1958	4,104	1,692	164	2,412	-
3635	Household vacuum cleaners	1963	1,111	363	60	748	-
		1962	1,013	355	49	658	-
		1958	845	306	37	539	-
3636	Sewing machines	1963	976	358	54	618	-
		1962	1,302	457	63	845	-
		1958	1,208	600	48	608	-
3639	Household appliances, n.e.c.	1963	3,206	1,511	128	1,695	(D)
		1962	4,318	2,203	154	2,115	-
		1958	3,304	1,583	127	1,721	-
364	Lighting and wiring devices	1963	23,147	9,184	996	13,963	(D)
		1962	24,005	9,980	978	14,025	-
		1958	19,256	8,202	759	11,054	-
3641	Electric lamps	1963	4,595	1,758	239	2,837	-
		1962	4,575	1,805	232	2,770	-
		1958	4,077	1,468	199	2,609	-
3642	Lighting fixtures	1963	9,304	3,681	391	5,623	(D)
		1962	9,001	3,781	355	5,220	-
		1958	7,425	3,136	292	4,289	-
3643	Current carrying devices	1963	4,228	1,323	180	2,905	-
		1962	5,295	1,856	217	3,439	-
		1958	3,422	1,277	126	2,145	-
3644	Noncurrent carrying devices	1963	5,020	2,422	186	2,598	-
		1962	5,134	2,538	174	2,596	-
		1958	4,332	2,321	141	2,011	-
365	Radio and TV receiving equipment	1963	9,592	3,226	493	6,366	(D)
		1962	8,615	3,036	418	5,579	(S)
		1958	6,327	2,359	282	3,968	1
3651	Radio and TV receiving sets	1963	6,918	2,010	388	4,908	(D)
		1962	7,034	2,312	357	4,722	(S)
		1958	4,785	1,616	231	3,169	1
3652	Phonograph records	1963	2,674	1,216	105	1,458	-
		1962	1,581	724	60	857	-
		1958	1,542	743	51	799	-
366	Communication equipment	1963 r	42,888	10,921	2,722	31,967	153
		1962 r	37,237	10,190	2,297	27,047	(S)
		1958 r	17,055	6,867	764	10,188	180
3661	Telephone; telegraph apparatus	1963	9,771	3,758	547	6,013	(D)
		1962	9,322	3,211	531	6,111	(S)
		1958	6,938	3,495	269	3,443	149
3662	Radio, TV communications equipment[9]	1963 r	33,117	7,163	2,175	25,954	(D)
		1962 r	27,915	6,979	1,766	20,936	(S)
		1958 r	10,117	3,372	495	6,745	30
367	Electronic components	1963	38,326	9,412	2,342	28,914	63
		1962	36,566	9,434	2,169	27,132	(S)
		1958	22,227	6,320	1,161	15,907	-
3671	Electron tubes, receiving type	1963	3,497	787	232	2,710	-
		1962	3,517	896	219	2,621	-
		1958	3,320	854	201	2,466	-
3672	Cathode ray picture tubes	1963	2,918	785	196	2,133	-
		1962	2,300	729	138	1,571	-
		1958	2,327	777	143	1,550	-
3673	Electron tubes, transmitting	1963	4,027	1,100	251	2,927	-
		1962	4,309	1,057	276	3,252	-
		1958	3,509	868	201	2,641	-
3674	Semiconductors[10]	1963	8,561	1,529	677	7,032	(D)
		1962	(NA)	(NA)	(NA)	(NA)	(NA)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
367	Electronic components--Continued						
3679	Electronic components, n.e.c.[10]	1963	19,323	5,211	986	14,112	(D)
		1962	26,440	6,752	1,536	19,688	(S)
		1958	13,071	3,821	616	9,250	-
369	Electrical products, n.e.c.	1963	16,477	5,324	960	11,153	10
		1962	16,877	5,839	914	11,038	(S)
		1958	13,295	4,674	681	8,621	10
3691	Storage batteries	1963	7,466	2,307	443	5,159	(D)
		1962	7,143	2,302	413	4,841	(S)
		1958	6,026	1,955	346	4,071	1
3692	Primary batteries, dry and wet	1963	1,346	529	61	817	-
		1962	1,273	505	57	768	-
		1958	953	483	37	470	-
3693	X-ray apparatus and tubes	1963	737	185	39	552	-
		1962	675	181	30	494	-
		1958	598	147	28	451	-
3694	Engine electrical equipment	1963	5,374	1,797	347	3,577	(D)
		1962	6,082	2,262	345	3,820	(S)
		1958	4,495	1,671	223	2,824	9
3699	Electrical products, n.e.c.	1963	1,554	506	69	1,048	-
		1962	1,704	589	68	1,115	-
		1958	1,223	418	48	805	-
37	Transportation equipment	1963	314,231	112,561	18,590	201,670	308
		1962	306,038	112,939	17,490	193,099	275
		1958[r]	253,192	100,192	13,356	153,000	270
371	Motor vehicles and equipment	1963	195,474	77,483	11,061	117,991	140
		1962	187,563	75,726	10,195	111,837	195
		1958	145,227	63,016	7,020	82,211	161
3713	Truck and bus bodies	1963	3,936	1,474	163	2,462	(D)
		1962	3,913	1,515	119	2,398	-
		1958	2,988	1,238	95	1,750	-
3715	Truck trailers	1963	2,796	1,110	117	1,686	-
		1962	3,324	1,309	179	2,015	-
		1958	2,059	878	84	1,181	-
3717	Motor vehicles and parts	1963	188,742	74,899	10,781	113,843	140
		1962	180,326	72,902	9,898	107,424	134
		1958	140,176	60,899	6,841	79,277	162
372	Aircraft and parts	1963	83,966	20,843	5,896	63,123	28
		1962	85,130	23,239	5,762	61,891	23
		1958	76,017	22,420	5,016	53,597	18
3721	Aircraft	1963	26,802	6,311	2,116	20,491	(D)
		1962	31,477	7,969	2,475	23,508	19
		1958	25,636	6,143	2,098	19,493	-
3722	Aircraft engines and parts	1963	30,397	7,184	2,148	23,213	(D)
		1962	27,157	7,437	1,824	19,720	(S)
		1958	27,160	8,931	1,557	18,229	3
3723	Aircraft propellers and parts	1963	1,669	368	107	1,301	-
		1962	1,650	415	101	1,235	(S)
		1958	2,384	671	139	1,713	-
3729	Aircraft equipment, n.e.c.	1963	25,098	6,980	1,525	18,118	(D)
		1962	24,846	7,418	1,362	17,428	-
		1958	20,837	6,675	1,222	14,162	11
373	Ship and boat building	1963	19,951	6,913	1,078	13,038	19
		1962	20,065	7,184	1,043	12,881	17
		1958	19,375	7,903	928	11,472	11
3731	Ship building and repairing	1963	17,089	5,772	992	11,317	(D)
		1962	17,067	6,021	949	11,046	17
		1958	16,842	6,967	815	9,875	11
3732	Boat building and repairing	1963	2,862	1,141	86	1,721	(D)
		1962	2,998	1,163	94	1,835	-
		1958	2,533	936	113	1,597	-
374	Railroad equipment	1963	10,034	5,241	396	4,793	101
		1962	9,131	4,895	352	4,236	(S)
		1958	9,285	5,337	295	3,948	84

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
374	Railroad equipment--Continued						
3741	Locomotives and parts	1963	2,904	1,658	117	1,246	(D)
		1962	2,562	1,284	120	1,278	(S)
		1958	2,986	1,764	104	1,222	69
3742	Railroad and street cars	1963	7,130	3,583	279	3,547	(D)
		1962	6,569	3,611	232	2,958	18
		1958	6,299	3,573	191	2,726	16
3751	Motorcycles, bicycles, and parts	1963	1,601	724	75	877	-
		1962	1,374	617	65	757	-
		1958	1,137	569	45	568	-
379	Transportation equipment, n.e.c	1963	3,205	1,357	85	1,848	20
		1962	2,775	1,278	73	1,497	-
		1958	2,383	980	72	1,403	-
3791	Trailer coaches	1963	2,032	860	50	1,172	(D)
		1962	1,813	894	45	919	-
		1958	1,692	697	50	995	-
3799	Transportation equipment, n.e.c	1963	1,173	497	35	676	(D)
		1962	962	384	29	578	-
		1958	691	283	22	408	-
38	Instruments and related products	1963r	40,111	16,207	1,661	23,904	462
		1962r	39,892	17,044	1,532	22,848	434
		1958r	31,066	14,176	1,072	16,890	354
3811	Scientific instruments[9]	1963r	3,795	1,048	177	2,747	-
		1962r	5,140	1,340	278	3,800	(S)
		1958r	4,711	1,298	250	3,413	1
382	Mechanical measuring devices	1963	10,708	3,109	532	7,599	(D)
		1962	10,533	3,369	488	7,164	(S)
		1958	6,879	2,426	292	4,453	3
3821	Mechanical measuring devices	1963	7,379	2,155	355	5,224	(D)
		1962	7,173	2,252	311	4,921	(S)
		1958	4,486	1,576	172	2,910	3
3822	Automatic temperature controls	1963	3,329	954	177	2,375	-
		1962	3,360	1,117	178	2,243	-
		1958	2,393	850	120	1,543	-
3831	Optical instruments and lenses	1963	1,567	385	53	1,182	(D)
		1962	846	222	36	624	-
		1958	732	293	22	439	-
384	Medical instruments and supplies	1963	5,595	2,000	248	3,595	(D)
		1962	6,110	2,440	219	3,670	(S)
		1958	4,725	1,927	164	2,798	-
3841	Surgical and medical instruments	1963	1,632	532	62	1,100	-
		1962	1,377	504	46	873	-
		1958	998	407	33	591	-
3842	Surgical appliances and supplies	1963	3,021	1,085	158	1,936	-
		1962	3,858	1,565	146	2,293	(S)
		1958	2,935	1,232	105	1,703	-
3843	Dental equipment and supplies	1963	942	383	29	559	(D)
		1962	875	371	27	504	-
		1958	792	288	26	504	-
3851	Ophthalmic goods	1963	2,880	1,077	141	1,803	(D)
		1962	2,443	1,077	78	1,366	25
		1958	2,164	1,064	59	1,100	20
3861	Photographic equipment	1963	13,107	7,888	398	5,219	(D)
		1962	12,497	7,830	340	4,667	397
		1958	9,913	6,430	220	3,483	330
387	Watches, clocks, and watchcases	1963	2,459	700	112	1,759	(D)
		1962	2,323	766	92	1,557	(S)
		1958	1,942	738	64	1,204	-
3871	Watches and clocks	1963	2,085	591	98	1,494	(D)
		1962	2,077	687	84	1,390	(S)
		1958	1,668	665	56	1,003	-
3872	Watchcases	1963	374	109	13	265	-
		1962	246	79	8	167	-
		1958	274	73	9	201	-

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
387	Watches, clocks, and watchcases--Continued						
39	Miscellaneous manufacturing	1963	48,442	17,173	1,867	31,269	13
		1962	51,948	20,664	1,902	31,284	20
		1958	62,627	24,804	2,498	37,823	74
391	Jewelry and silverware	1963	4,862	1,689	182	3,173	2
		1962	4,848	1,899	175	2,949	6
		1958	4,677	1,823	153	2,854	3
3911	Jewelry, precious metal	1963	1,465	368	55	1,097	(D)
		1962	1,471	459	49	1,012	-
		1958	1,433	424	45	1,009	(Z)
3912	Jewelers' findings and materials	1963	471	163	14	308	-
		1962	689	213	26	476	-
		1958	716	247	27	469	-
3913	Lapidary work	1963	302	78	14	224	-
		1962	142	72	4	70	-
		1958	101	41	2	60	-
3914	Silverware and plated ware	1963	2,624	1,080	99	1,544	(D)
		1962	2,546	1,155	95	1,391	6
		1958	2,427	1,111	78	1,316	3
3931	Musical instruments and parts	1963	2,276	919	77	1,357	(D)
		1962	2,050	787	70	1,263	(S)
		1958	1,808	831	54	977	2
394	Toys and sporting goods	1963	13,693	4,364	579	9,329	2
		1962	14,671	5,735	588	8,936	(S)
		1958	10,227	3,743	368	6,484	3
3941	Games and toys	1963	6,233	1,677	296	4,556	(D)
		1962	5,881	1,991	247	3,890	-
		1958	4,562	1,530	173	3,032	1
3942	Dolls	1963	1,358	316	66	1,042	-
		1962	1,333	443	47	890	-
		1958	1,042	325	38	717	-
3943	Children's vehicles	1963	702	321	22	381	-
		1962	746	397	20	349	-
		1958	582	283	17	299	-
3949	Sporting and athletic goods	1963	5,400	2,050	196	3,350	(D)
		1962	6,711	2,904	275	3,807	(S)
		1958	4,041	1,605	141	2,436	2
395	Pens, pencils, and office supplies	1963	3,817	1,230	147	2,587	(Z)
		1962	4,254	1,447	161	2,807	-
		1958	3,068	1,136	108	1,932	-
3951	Pens and mechanical pencils	1963	1,038	201	56	837	(D)
		1962	1,239	283	61	956	-
		1958	897	228	41	669	-
3952	Lead pencils and art goods	1963	1,020	457	35	563	(D)
		1962	1,095	461	42	634	-
		1958	899	434	29	465	-
3953	Marking devices	1963	773	245	26	528	(D)
		1962	781	290	20	491	-
		1958	498	157	14	341	-
3955	Carbon paper and inked ribbons	1963	986	327	30	659	-
		1962	1,139	413	38	726	-
		1958	774	317	24	457	-
396	Costume jewelry and notions	1963	5,969	1,743	254	4,226	(Z)
		1962	6,145	2,137	232	4,008	(S)
		1958	5,091	1,781	164	3,310	5
3961	Costume jewelry	1963	1,796	493	70	1,303	(D)
		1962	1,839	729	59	1,110	-
		1958	1,749	511	56	1,238	-
3962	Artificial flowers	1963	460	166	17	294	-
		1962	645	222	23	423	-
		1958	516	235	12	281	-
3963	Buttons	1963	920	261	34	659	(D)
		1962	1,050	302	50	748	-
		1958	828	256	32	572	-
3964	Needles, pins, and fasteners	1963	2,793	823	132	1,970	(D)
		1962	2,611	884	100	1,727	(S)
		1958	1,998	779	64	1,219	5

See footnotes at end of table.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Code	Industry group and industry	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
39	Miscellaneous manufacturing--Continued						
398 399	Miscellaneous manufactures	1963	17,825	7,228	627	10,597	8
		1962	19,980	8,659	676	11,321	10
		1958[11]	37,756	15,498	488	22,258	61
3981	Brooms and brushes	1963	1,963	593	86	1,370	(D)
		1962	2,730	932	98	1,798	(S)
		1958	1,733	619	56	1,114	1
3982	Hard surface floor coverings	1963	3,245	1,574	145	1,671	(D)
		1962	3,546	1,852	151	1,694	(S)
		1958	3,978	2,459	129	1,519	16
3983	Matches	1963	655	264	29	391	(D)
		1962	638	294	30	344	(S)
		1958	656	335	25	321	6
3984	Candles	1963	405	269	7	136	(D)
		1962	208	149	2	59	(S)
		1958	336	250	4	86	-
3987	Lamp shades	1963	126	36	4	90	-
		1962	197	(S)	(S)	(S)	-
		1958	215	66	7	149	-
3988	Morticians' goods	1963	1,988	876	55	1,112	2
		1962	2,929	1,315	83	1,614	(S)
		1958	1,948	901	50	1,047	3
3992	Furs, dressed and dyed	1963	349	146	10	203	(D)
		1962	253	119	6	134	-
		1958	221	90	6	131	-
3993	Signs and advertising displays	1963	5,144	2,033	153	3,111	(Z)
		1962	5,693	2,365	179	3,328	(S)
		1958	3,963	1,699	112	2,264	-
3995	Umbrellas, parasols and canes	1963	199	57	7	142	(D)
		1962	227	109	(S)	(S)	-
		1958	180	73	5	107	-
3999	Miscellaneous products, n.e.c.	1963	3,751	1,380	130	2,371	(Z)
		1962	3,559	1,491	112	2,068	-
		1958	3,185	1,388	94	1,797	-
19	Ordnance and accessories	1963	29,989	9,609	2,060	20,380	31
		1962[r]	24,342	9,912	1,366	14,430	160
		1958	(11)	(11)	(11)	(11)	(11)
192	Missiles and ammunition, n.e.c.	1963	19,017	5,448	1,419	13,569	36
		1962	(NA)	(NA)	(NA)	(NA)	(NA)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
1925	Complete guided missiles	1963	12,974	2,462	1,207	10,512	(D)
		1962	(NA)	(NA)	(NA)	(NA)	(NA)
		1958	10,589	4,077	649	6,512	-
1929	Ammunition, n.e.c.	1963	6,043	2,986	212	3,057	(D)
		1962	(NA)	(NA)	(NA)	(NA)	(NA)
		1958	854	453	25	401	16
1931	Tanks and tank components	1963	1,676	570	92	1,106	-
		1962	(NA)	(NA)	(NA)	(NA)	(NA)
		1958	1,396	621	61	775	-
1941	Sighting and fire control equipment	1963	750	134	55	616	-
		1962	(NA)	(NA)	(NA)	(NA)	(NA)
		1958	3,705	1,005	194	2,700	-
1951	Small arms, 30 mm and under	1963	1,749	942	64	807	(D)
		1962	(NA)	(NA)	(NA)	(NA)	(NA)
		1958	1,650	1,011	40	639	5
1961	Small arms ammunition	1963	2,669	1,410	113	1,259	(D)
		1962	(NA)	(NA)	(NA)	(NA)	(NA)
		1958	2,592	1,594	68	998	10
1911 1999	Guns, howitzers, mortars and ordnance and accessories, n.e.c.	1963	4,128	1,105	318	3,023	(D)
		1962	(NA)	(NA)	(NA)	(NA)	(NA)
		1958	1,600	596	82	1,004	-

Footnotes on next page.

TABLE 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958—Continued

Footnotes for table 2. Consumption Used, by Industry Groups and Industries: 1963, 1962, and 1958

Note: Detail may not add to totals due to independent rounding.

- Represents zero.
(D) Withheld to avoid disclosing figures for individual companies.
(NA) Not available.
n.e.c. Not elsewhere classified.
[r]Revised.
(S) Withheld because the estimate did not meet publication standards.
(Z) Less than 500 thousand kilowatt hours.
[1]Prior to 1963 industry 2095, Roasted Coffee, was classified with industry 2099, Food Preparations, N.E.C.
[2]For 1963, the Standard Industrial Classifications for the hosiery mills were revised to include in industry 2251, mills engaged primarily in producing women's hosiery, except socks, and in industry 2252, mills engaged primarily in producing all other hosiery.
[3]In 1962, industry 2541, Wood Partitions and Fixtures, and industry 2542, Metal Partitions and Fixtures, were shown only in the industry group 254, Partitions and Fixtures.
[4]Data for industry 2647, Sanitary Paper Products, was classified in industry 2649, Converted Paper Products, N.E.C., in all years preceding 1963.
[5]Statistics are not comparable for the years 1958 and 1962 for industries 2751, Commercial Printing, Except Lithographic, and 2752, Commercial Printing, Lithographic. This was due to a misclassification of a number of small establishments.
[6]Data for industry 2872, Fertilizers, Mixing Only, was classified in industry 2871, Fertilizers, in all years preceding 1963.
[7]Establishments primarily engaged in producing exfoliated vermiculate were reclassified from industry 3296, Mineral Wool, to industry 3295, Minerals, Ground or Treated, in 1963.
[8]Data for industry 3446, Architectural Metal Work, was classified in industry 3449, Miscellaneous Metal Work, in all years preceding 1963.
[9]During the period 1958-1963 some of the large establishments which formerly manufactured individual instruments, and therefore were classified in industry 3811, began shipping complete navigational and guidance systems as their major products. These establishments have been reclassified into industry 3662 for the 1963 Census of Manufactures. 1958 and 1962 figures have been revised accordingly.
[10]Industry 3674, Simiconductors, was included in industry 3679, Electronic Components, in all years preceding 1963.
[11]Major group 19, Ordnance and Accessories, are aggregated with industry group 398 and 399, Miscellaneous Manufactures, in 1958.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	United States, total	1963	6,369,689	3,409,017	332,983	2,960,672	72,949
		1962	6,184,057	3,360,720	313,961	2,823,337	74,261
		1958	5,067,049	2,836,244	252,909	2,230,805	66,850
	New England	1963	340,726	161,396	12,636	179,330	2,701
		1962	358,321	177,211	12,184	181,110	2,666
		1958	310,900	164,913	9,290	145,987	2,484
	Maine	1963	42,364	26,926	1,422	15,438	1,491
		1962	45,172	29,687	1,380	15,485	1,457
		1958	37,338	26,378	1,065	10,960	1,191
20	Food and kindred products	1963	3,910	2,080	103	1,830	-
		1962	4,673	2,558	108	2,115	-
		1958	2,957	1,780	62	1,117	-
22	Textile mill products	1963	3,477	1,522	145	1,955	54
		1962	3,711	1,716	147	1,995	50
		1958	3,197	1,696	117	1,501	59
24	Lumber and wood products	1963	3,485	2,369	59	1,116	(D)
		1962	3,131	1,943	71	1,188	(S)
		1958	2,048	1,304	36	744	2
26	Paper and allied products	1963	23,970	17,231	805	6,739	1,428
		1962	26,506	19,649	820	6,857	1,398
		1958	21,908	17,166	668	4,742	1,102
31	Leather and leather products	1963	1,976	988	75	988	(D)
		1962	1,881	814	52	1,067	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
37	Transportation equipment	1963	528	264	33	264	-
		1962	562	226	31	336	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	New Hampshire	1963	22,279	11,731	830	10,548	167
		1962	23,061	12,521	767	10,540	194
		1958	22,205	13,191	635	9,014	168
22	Textile mill products	1963	3,647	1,945	130	1,702	23
		1962	4,176	2,188	141	1,988	28
		1958	3,958	2,143	136	1,815	19
24	Lumber and wood products	1963	1,442	923	26	519	(D)
		1962	1,244	738	26	506	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
26	Paper and allied products	1963	7,459	4,853	254	2,606	140
		1962	9,037	6,080	284	2,957	163
		1958	10,146	7,467	219	2,679	144
27	Printing and publishing	1963	465	194	13	271	-
		1962	231	113	7	118	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
31	Leather and leather products	1963	1,972	922	57	1,050	(Z)
		1962	2,051	1,002	55	1,049	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
32	Stone, clay, and glass products	1963	940	588	22	352	(Z)
		1962	654	390	18	264	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
33	Primary metal industries	1963	624	347	60	277	-
		1962	457	230	13	227	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
35	Machinery, except electrical	1963	1,207	385	50	822	(D)
		1962	1,422	449	56	973	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
36	Electrical machinery	1963	1,280	268	84	1,012	-
		1962	1,334	333	70	1,001	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Vermont	1963	9,218	4,222	336	4,996	37
		1962	10,614	4,891	358	5,723	28
		1958	8,175	4,238	233	3,937	2
24	Lumber and wood products	1963	1,095	733	17	362	(D)
		1962	852	474	18	378	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
25	Furniture and fixtures	1963	272	68	10	204	(D)
		1962	302	111	10	191	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	Vermont—Continued						
26	Paper and allied products	1963	1,982	9,99	88	9,83	(D)
		1962	1,883	975	74	908	(S)
		1958	1,847	1,097	62	750	(S)
32	Stone, clay, and glass products	1963	1,025	4,63	32	5,62	(D)
		1962	1,283	543	35	740	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
35	Machinery, except electrical	1963	956	2,94	45	6,62	(D)
		1962	786	226	36	560	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
36	Electrical machinery	1963	309	1.16	14	1.93	-
		1962	319	124	14	195	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Massachusetts	1963	145,185	63,867	5,304	81,318	581
		1962	153,889	70,527	5,322	83,362	551
		1958	137,976	68,810	4,055	69,166	598
20	Food and kindred products	1963	12,017	5,807	385	6,210	40
		1962	11,723	5,978	348	5,745	40
		1958	12,352	6,927	298	5,425	318
22	Textile mill products	1963	13,950	6,703	517	7,247	26
		1962	14,845	7,433	450	7,412	26
		1958	16,130	8,026	479	8,104	52
23	Apparel and related products	1963	2,682	575	106	2,107	(Z)
		1962	3,070	920	117	2,150	-
		1958	1,147	606	24	541	-
25	Furniture and fixtures	1963	1,547	587	47	960	8
		1962	1,762	755	49	1,007	7
		1958	1,313	570	31	743	7
26	Paper and allied products	1963	19,776	10,365	645	9,411	291
		1962	20,272	10,984	625	9,288	254
		1958	18,274	10,517	498	7,757	236
27	Printing and publishing	1963	3,643	1,088	133	2,555	(Z)
		1962	3,551	1,042	141	2,509	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
28	Chemicals and allied products	1963	11,094	5,560	427	5,534	9
		1962	13,555	6,482	540	7,073	8
		1958	8,701	5,240	234	3,461	10
29	Petroleum and coal products	1963	2,259	1,462	51	797	-
		1962	2,259	1,276	73	983	-
		1958	2,322	774	115	1,548	-
30	Rubber and plastics products, n.e.c.	1963	10,795	3,250	525	7,545	(D)
		1962	11,415	3,479	489	7,936	(S)
		1958	9,878	3,586	408	6,292	(S)
31	Leather and leather products	1963	4,203	1,765	128	2,438	21
		1962	4,300	1,906	106	2,394	19
		1958	5,216	2,241	136	2,975	16
33	Primary metal industries	1963	11,639	5,918	379	5,721	(D)
		1962	11,329	5,917	333	5,412	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
34	Fabricated metal products	1963	8,604	3,546	312	5,058	12
		1962	8,947	4,004	263	4,943	25
		1958	7,324	3,362	211	3,962	43
35	Machinery, except electrical	1963	11,817	5,563	345	6,254	(D)
		1962	11,565	5,704	369	5,861	108
		1958	10,614	5,513	277	5,101	54
36	Electrical machinery	1963	13,326	3,778	714	9,548	1
		1962r	14,228	4,006	763	10,222	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
37	Transportation equipment	1963	3,877	1,311	180	2,566	-
		1962	4,039	1,451	182	2,588	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
38	Instruments and related products	1963	3,637	1,347	118	2,290	28
		1962	3,406	1,459	110	1,947	26
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
39	Miscellaneous manufacturing; including ordnance	1963	4,249	1,678	151	2,571	(Z)
		1962r	4,865	2,048	169	2,817	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	Rhode Island	1963	26,496	12,125	934	14,371	73
		1962	31,182	15,655	971	15,527	69
		1958	24,259	12,144	669	12,115	74
20	Food and kindred products	1963	1,649	958	36	691	(D)
		1962	1,566	957	31	609	(S)
		1958	1,563	949	30	614	(S)
22	Textile mill products	1963	7,628	3,800	240	3,828	28
		1962	8,832	4,111	316	4,721	28
		1958	8,340	4,751	199	3,539	37
28	Chemicals and allied products	1963	1,494	683	60	811	-
		1962	682	315	24	367	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
30	Rubber and plastics products, nec	1963	1,843	588	85	1,255	2
		1962	2,945	1,107	124	1,838	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
33	Primary metal industries	1963	3,812	1,743	158	2,069	13
		1962	4,096	1,944	144	2,152	11
		1958	3,476	1,697	103	1,779	(S)
34	Fabricated metal products	1963	1,427	590	43	837	(Z)
		1962	1,570	625	46	945	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
35	Machinery, except electrical	1963	1,227	461	47	766	(D)
		1962	1,446	554	45	892	(S)
		1958	1,101	442	31	659	(S)
36	Electrical machinery	1963	883	221	51	662	(Z)
		1962	767	179	36	588	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
39	Miscellaneous manufacturing including ordnance	1963	1,946	645	68	1,301	(Z)
		1962	1,838	674	58	1,164	-
		1958	1,674	591	48	1,083	-
	Connecticut	1963	95,184	42,525	3,810	52,659	353
		1962	94,403	43,930	3,387	50,473	367
		1958	80,949	40,154	2,533	40,795	370
20	Food and kindred products	1963	3,163	1,487	91	1,676	(Z)
		1962	3,303	1,693	90	1,610	-
		1958	3,042	1,551	77	1,491	(S)
22	Textile mill products	1963	4,276	2,533	200	1,743	27
		1962	4,453	2,811	91	1,642	29
		1958	4,769	3,170	94	1,599	47
23	Apparel and related products	1963	1,074	467	49	607	(D)
		1962	809	395	20	414	(S)
		1958	1,213	654	25	559	2
26	Paper and allied products	1963	5,133	2,821	161	2,312	46
		1962	4,737	2,846	143	1,891	68
		1958	5,122	3,346	113	1,776	70
27	Printing and publishing	1963	2,292	888	81	1,404	(Z)
		1962	2,305	892	59	1,413	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
28	Chemicals and allied products	1963	6,336	3,451	227	2,885	101
		1962	6,187	3,386	222	2,801	94
		1958	5,161	2,946	159	2,215	82
30	Rubber and plastics products, nec	1963	4,839	1,795	208	3,044	16
		1962	5,035	2,006	197	3,029	16
		1958	4,515	1,870	165	2,645	11
31	Leather and leather products	1963	139	49	4	90	-
		1962	375	129	13	246	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
33	Primary metal industries	1963	17,817	9,070	646	8,747	102
		1962	16,481	8,745	558	7,736	100
		1958	14,817	8,348	427	6,469	107
34	Fabricated metal products	1963	8,253	3,755	272	4,498	31
		1962	9,572	4,366	325	5,206	22
		1958	8,325	4,047	248	4,278	38
35	Machinery, except electrical	1963	11,652	4,598	517	7,054	(Z)
		1962	10,626	4,035	411	6,591	-
		1958	9,153	3,690	314	5,463	(Z)

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	Connecticut--Continued						
36	Electrical machinery	1963	5,350	1,693	251	3,657	(Z)
		1962	5,483	1,839	220	3,644	-
		1958	3,911	1,545	128	2,366	(S)
37	Transportation equipment	1963	12,610	3,680	742	8,930	19
		1962	12,145	3,867	662	8,278	19
		1958	9,174	2,969	475	6,205	(S)
38	Instruments and related products	1963	1,799	574	69	1,225	-
		1962	1,671	601	60	1,070	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
39	Miscellaneous manufacturing, including ordnance	1963	5,216	2,359	183	2,857	8
		1962	4,875	2,252	159	2,623	17
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Middle Atlantic	1963	1,239,682	681,317	50,669	558,365	7,889
		1962	1,245,993	702,685	47,747	543,308	7,880
		1958	1,088,052	653,686	35,869	434,366	7,336
	New York	1963	422,368	199,079	21,863	223,289	2,183
		1962	433,212	212,424	20,576	220,788	1,977
		1958	363,666	191,852	15,013	171,814	1,874
20	Food and kindred products	1963	47,369	23,092	1,394	24,277	97
		1962	47,388	26,038	1,409	21,350	123
		1958	44,255	25,888	1,215	18,367	100
22	Textile mill products	1963	11,066	5,597	340	5,469	15
		1962	13,271	5,985	434	7,286	17
		1958	11,190	5,914	305	5,276	24
23	Apparel and related products	1963	17,992	3,864	746	14,128	2
		1962	18,619	4,207	722	14,412	-
		1958	18,303	4,120	603	14,183	(S)
24	Lumber and wood products	1963	3,688	2,085	84	1,603	(D)
		1962	4,522	2,303	109	2,219	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
25	Furniture and fixtures	1963	4,285	1,594	137	2,691	(D)
		1962	4,527	1,716	165	2,811	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
26	Paper and allied products	1963	34,141	19,160	1,469	14,981	611
		1962	32,238	18,958	1,296	13,280	586
		1958	29,448	18,186	1,152	11,262	574
27	Printing and publishing	1963	14,353	3,006	623	11,347	194
		1962	14,602	2,956	606	11,646	-
		1958	12,865	3,080	526	9,785	(S)
28	Chemicals and allied products	1963	42,568	22,617	2,699	19,951	510
		1962	43,144	23,218	2,704	19,926	441
		1958	39,697	23,230	2,119	16,467	401
30	Rubber and plastics products, n.e.c.	1963	7,823	2,562	382	5,261	14
		1962	9,361	3,058	428	6,303	13
		1958	6,918	2,828	306	4,090	(S)
31	Leather and leather products	1963	4,491	2,015	138	2,476	(D)
		1962	4,815	2,213	129	2,602	(S)
		1958	4,959	2,400	137	2,559	2
32	Stone, clay, and glass products	1963	32,664	20,348	1,158	12,316	22
		1962	32,223	20,267	1,124	11,956	65
		1958	27,423	18,251	896	9,172	55
33	Primary metal industries	1963	84,476	45,510	7,290	38,966	236
		1962	87,720	49,387	6,382	38,333	283
		1958	62,774	39,998	3,523	22,776	(S)
34	Fabricated metal products	1963	17,962	7,774	606	10,188	(D)
		1962	18,991	8,329	623	10,662	-
		1958	15,285	6,864	516	8,421	(S)
35	Machinery, except electrical	1963	24,691	11,133	1,095	13,558	52
		1962	25,169	11,776	934	13,393	46
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
36	Electrical machinery	1963	27,482	8,976	1,576	18,506	(D)
		1962[r]	28,497	9,906	1,527	18,591	(S)
		1958	19,633	7,521	1,021	12,112	(S)

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	New York--Continued						
37	Transportation equipment	1963	19,580	7,494	1,069	12,086	5
		1962	20,928	8,987	1,037	11,941	7
		1958	17,715	7,998	856	9,717	10
38	Instruments and related products	1963	13,098	7,109	428	5,989	413
		1962r	12,552	7,075	313	5,477	385
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
39	Miscellaneous manufacturing including ordnance	1963	10,313	2,980	419	7,333	2
		1962r	10,891	4,082	440	6,809	2
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	New Jersey	1963	247,758	134,926	9,351	112,832	1,13[illegible]
		1962	239,047	132,957	8,526	106,090	1,339
		1958	207,520	120,860	6,450	86,660	1,253
20	Food and kindred products	1963	21,006	11,363	705	9,643	38
		1962	18,587	10,691	556	7,896	56
		1958	19,352	11,631	530	7,721	37
22	Textile mill products	1963	9,912	5,999	238	3,913	9
		1962	9,281	5,873	187	3,408	17
		1958	11,236	7,350	326	3,886	77
23	Apparel and related products	1963	4,181	1,343	155	2,838	(Z)
		1962	4,231	1,554	143	2,677	-
		1958	3,470	1,097	109	2,373	-
24	Lumber and wood products	1963	1,084	577	24	507	1
		1962	1,085	606	23	479	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
25	Furniture and fixtures	1963	1,289	512	40	777	(Z)
		1962	910	451	25	459	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
26	Paper and allied products	1963	20,918	12,132	791	8,786	288
		1962	16,795	10,083	589	6,712	449
		1958	17,624	12,188	442	5,436	284
27	Printing and publishing	1963	3,418	1,017	135	2,401	(Z)
		1962	4,608	1,409	194	3,199	-
		1958	3,014	1,051	104	1,963	-
28	Chemicals and allied products	1963	55,894	33,597	2,192	22,297	333
		1962	53,854	33,501	2,016	20,353	361
		1958	47,873	31,437	1,314	16,436	(S)
29	Petroleum and coal products	1963	18,139	12,471	658	5,668	263
		1962	16,266	12,190	453	4,076	243
		1958	5,143	1,277	409	3,866	194
30	Rubber and plastics products, nec	1963	9,226	3,286	456	5,940	3
		1962	9,318	3,596	389	5,722	-
		1958	6,848	3,016	254	3,832	1
31	Leather and leather products	1963	1,292	601	35	691	-
		1962	1,026	437	65	589	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
32	Stone, clay, and glass products	1963	22,691	15,978	583	6,713	31
		1962	23,105	15,758	580	7,347	25
		1958	20,511	14,537	470	5,974	(S)
33	Primary metal industries	1963	26,055	15,455	956	10,600	107
		1962	25,023	14,721	879	10,302	120
		1958	22,831	14,815	631	8,016	(S)
34	Fabricated metal products	1963	13,387	5,733	533	7,654	(D)
		1962	14,634	6,311	607	8,323	(S)
		1958	11,019	5,338	379	5,681	(S)
35	Machinery, except electrical	1963	9,403	3,967	353	5,436	18
		1962	9,919	4,504	347	5,415	18
		1958	8,193	3,655	261	4,538	(S)
36	Electrical machinery	1963	15,886	5,303	834	10,583	44
		1962r	15,592	5,196	829	10,396	47
		1958	12,122	5,138	532	6,984	(S)
37	Transportation equipment	1963	6,972	2,759	381	4,213	-
		1962	7,601	3,023	386	4,578	(S)
		1958	7,892	3,461	365	4,431	(S)

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
	New Jersey--Continued						
38	Instruments and related products	1963	2,907	1,278	128	1,629	-
		1962[r]	3,117	1,413	113	1,704	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
39	Miscellaneous manufacturing, including ordnance	1963	3,962	1,511	147	2,451	(Z)
		1962	3,959	1,595	140	2,364	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Pennsylvania	1963	569,556	347,312	19,455	222,244	4,570
		1962	573,734	357,304	18,645	216,430	4,563
		1958	516,866	340,974	14,406	175,892	4,209
20	Food and kindred products	1963	32,918	18,415	1,005	14,503	111
		1962	32,085	17,335	919	14,750	111
		1958	29,909	17,734	777	12,175	118
21	Tobacco products	1963	986	368	40	618	-
		1962	828	282	35	546	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
22	Textile mill products	1963	13,935	6,487	506	7,448	11
		1962	13,605	6,663	438	6,942	8
		1958	13,689	6,846	455	6,843	14
23	Apparel and related products	1963	7,067	2,456	257	4,611	1
		1962	8,122	2,921	246	5,201	-
		1958	5,662	2,135	165	3,527	(Z)
25	Furniture and fixtures	1963	3,443	1,461	112	1,982	(D)
		1962	3,645	1,629	120	2,016	(S)
		1958	3,681	1,653	111	2,028	(S)
26	Paper and allied products	1963	24,555	15,283	867	9,272	758
		1962	26,159	15,531	971	10,628	713
		1958	24,423	15,418	692	9,005	621
27	Printing and publishing	1963	7,057	2,453	306	4,604	(D)
		1962	7,444	2,550	344	4,894	(S)
		1958	6,233	2,277	259	3,956	(S)
28	Chemicals and allied products	1963	39,243	22,281	1,502	16,962	430
		1962	34,237	19,571	1,476	14,716	410
		1958	25,956	16,322	909	9,634	342
29	Petroleum and coal products	1963	24,415	15,189	1,023	9,226	163
		1962	22,937	13,792	1,002	9,145	161
		1958	19,124	10,937	877	8,187	(S)
30	Rubber and plastics products, n.e.c.	1963	8,076	2,599	434	5,477	(D)
		1962	8,140	2,603	447	5,537	(S)
		1958	6,493	2,420	333	4,073	(S)
31	Leather and leather products	1963	2,645	1,311	63	1,334	13
		1962	2,610	1,458	54	1,152	13
		1958	2,533	1,441	53	1,092	(S)
32	Stone, clay, and glass products	1963	61,213	41,783	1,809	19,430	204
		1962	64,682	44,546	1,804	20,136	217
		1958	59,911	42,423	1,573	17,488	309
33	Primary metal industries	1963	253,646	179,136	7,450	74,510	2,701
		1962	255,899	187,422	6,874	68,477	2,791
		1958	239,382	184,114	5,212	55,268	2,390
34	Fabricated metal products	1963	25,608	11,625	1,032	13,983	(D)
		1962	27,972	13,423	1,004	14,549	(S)
		1958	23,978	11,683	896	12,295	3
35	Machinery, except electrical	1963	22,361	9,352	961	13,009	(Z)
		1962	22,892	10,250	964	12,642	14
		1958	19,201	9,430	664	9,771	7
36	Electrical machinery	1963	18,394	6,434	1,038	11,960	92
		1962	17,845	6,278	972	11,567	36
		1958	14,558	5,408	746	9,150	(S)
37	Transportation equipment	1963	11,259	4,463	608	6,796	77
		1962	11,556	4,901	543	6,655	79
		1958	10,738	5,116	415	5,622	(S)
39	Miscellaneous manufacturing, including ordnance	1963	5,807	2,298	255	3,509	1
		1962	6,275	2,632	245	3,643	2
		1958	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table..

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	East North Central	1963	1,841,357	996,767	85,976	844,590	15,927
		1962	1,804,548	996,720	80,906	807,828	15,906
		1958	1,491,168	852,375	63,631	638,793	15,757
	Ohio	1963	633,747	332,093	40,773	301,654	5,026
		1962	601,654	314,132	38,924	287,522	5,033
		1958	517,042	271,314	32,951	245,728	5,854
20	Food and kindred products	1963	26,797	13,868	840	12,929	12
		1962	27,320	13,751	871	13,569	26
		1958	24,827	13,219	762	11,608	40
22	Textile mill products	1963	2,023	942	84	1,081	3
		1962	2,048	978	82	1,070	-
		1958	2,011	914	89	1,097	(S)
23	Apparel and related products	1963	1,132	437	36	695	(Z)
		1962	1,552	697	(S)	(S)	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
25	Furniture and fixtures	1963	2,793	1,303	111	1,490	(D)
		1962	2,737	1,269	95	1,468	(S)
		1958	2,578	1,138	87	1,440	(S)
26	Paper and allied products	1963	22,374	12,910	837	9,464	635
		1962	20,908	12,749	745	8,159	688
		1958	17,143	11,690	458	5,453	701
27	Printing and publishing	1963	6,838	2,309	302	4,529	(D)
		1962	7,392	2,409	313	4,983	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
28	Chemicals and allied products	1963	111,096	29,006	17,909	82,090	872
		1962	105,262	25,788	17,533	79,474	834
		1958	104,758	22,547	18,437	82,211	1,608
29	Petroleum and coal products	1963	12,317	6,238	719	6,079	-
		1962	11,876	6,288	678	5,588	96
		1958	8,804	4,024	570	4,780	-
30	Rubber and plastics products, n.e.c.	1963	24,813	11,019	1,296	13,794	387
		1962	24,043	10,527	1,255	13,516	392
		1958	19,751	9,532	930	10,219	(S)
31	Leather and leather products	1963	729	256	29	473	(D)
		1962	726	263	30	463	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
32	Stone, clay, and glass products	1963	60,333	45,274	1,359	15,059	241
		1962	55,225	41,298	1,224	13,927	231
		1958	54,148	41,527	1,043	12,621	314
33	Primary metal industries	1963	236,523	159,696	10,978	76,827	2,784
		1962	220,085	149,295	10,254	70,790	2,676
		1958	170,541	121,099	5,644	49,442	2,644
34	Fabricated metal products	1963	28,774	12,274	1,120	16,500	(D)
		1962	28,583	12,952	1,004	15,631	(S)
		1958	24,373	10,737	898	13,636	3
35	Machinery, except electrical	1963	29,109	11,931	1,251	17,178	77
		1962	28,056	11,539	1,140	16,517	76
		1958	23,849	10,587	856	13,262	75
36	Electrical machinery	1963	22,841	9,343	1,164	13,498	(D)
		1962	23,828	10,132	1,146	13,696	(S)
		1958	19,510	8,162	913	11,348	2
37	Transportation equipment	1963	36,795	11,190	2,470	25,605	(D)
		1962	35,040	10,863	2,285	24,177	(S)
		1958	31,436	10,621	1,812	20,815	(S)
38	Instruments and related products	1963	1,113	317	44	796	-
		1962	972	313	39	659	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
39	Miscellaneous manufacturing, including ordnance	1963	4,603	1,936	179	2,667	1
		1962	3,893	1,823	148	2,070	1
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Indiana	1963	256,845	139,489	10,374	117,356	2,654
		1962	241,505	129,261	9,854	112,244	2,699
		1958	188,565	112,288	6,122	76,277	2,786
20	Food and kindred products	1963	17,625	9,972	572	7,653	142
		1962	20,152	10,938	673	9,214	139
		1958	16,120	9,712	439	6,408	123

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	Indiana--Continued						
23	Apparel and related products	1963	688	286	21	402	(Z)
		1962	505	234	16	271	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
24	Lumber and wood products	1963	2,558	1,438	63	1,120	(D)
		1962	2,133	903	77	1,230	(S)
		1958	2,769	2,027	42	742	(S)
25	Furniture and fixtures	1963	3,066	1,143	114	1,923	(D)
		1962	3,128	1,211	116	1,917	(S)
		1958	2,353	933	78	1,420	2
26	Paper and allied products	1963	5,785	2,953	219	2,832	138
		1962	5,428	2,907	217	2,521	135
		1958	4,611	2,743	127	1,868	120
27	Printing and publishing	1963	2,473	779	115	1,694	(Z)
		1962	2,259	701	134	1,558	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
28	Chemicals and allied products	1963	16,047	9,106	753	6,941	327
		1962	14,312	8,207	613	6,105	327
		1958	10,720	7,111	344	3,609	(S)
29	Petroleum and coal products	1963	6,966	4,997	211	1,969	536
		1962	7,774	5,674	204	2,100	537
		1958	2,716	1,249	154	1,467	(S)
30	Rubber and plastics products, n.e.c	1963	6,221	2,264	358	3,957	1
		1962	5,604	1,947	308	3,657	-
		1958	4,551	1,804	237	2,747	-
32	Stone, clay, and glass products	1963	25,112	16,874	751	8,238	48
		1962	24,744	16,909	674	7,835	68
		1958	23,268	16,853	555	6,415	(S)
33	Primary metal industries	1963	108,013	65,067	3,926	42,946	1,390
		1962	95,657	55,202	3,719	40,455	1,437
		1958	70,818	48,072	1,950	22,746	1,557
34	Fabricated metal products	1963	10,629	4,378	388	6,251	(D)
		1962	10,422	4,584	382	5,838	(S)
		1958	8,103	3,639	274	4,464	(S)
35	Machinery, except electrical	1963	10,189	4,069	481	6,120	(Z)
		1962	9,911	3,967	446	5,944	-
		1958	8,082	3,486	308	4,596	(S)
36	Electrical machinery	1963	15,921	5,298	1,071	10,623	(D)
		1962	14,543	4,831	977	9,712	(S)
		1958	11,194	3,854	683	7,340	(S)
37	Transportation equipment	1963	22,219	9,310	1,200	12,909	54
		1962	21,530	9,412	1,160	12,118	31
		1958	18,641	8,765	779	9,876	(S)
38	Instruments and related products	1963	892	443	36	449	(D)
		1962	818	420	31	398	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Illinois	1963	414,478	232,878	14,815	181,600	2,356
		1962	418,499	240,694	14,028	177,805	2,353
		1958	359,718	223,960	10,707	135,758	2,142
20	Food and kindred products	1963	50,446	28,017	1,684	22,429	508
		1962	53,304	30,426	1,693	22,878	474
		1958	48,060	28,299	1,483	19,761	405
23	Apparel and related products	1963	2,192	730	75	1,462	(Z)
		1962	1,916	631	61	1,285	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
24	Lumber and wood products	1963	2,216	1,170	50	1,046	(D)
		1962	2,354	1,150	50	1,204	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
25	Furniture and fixtures	1963	4,131	1,692	129	2,439	-
		1962	3,386	1,591	101	1,795	-
		1958	3,400	1,406	109	1,994	(Z)
26	Paper and allied products	1963	13,448	7,360	446	6,088	297
		1962	13,001	7,639	390	5,362	304
		1958	10,424	6,158	307	4,266	210
27	Printing and publishing	1963	10,830	3,223	488	7,607	2
		1962	10,495	2,786	457	7,709	-
		1958	9,482	3,349	388	6,133	(Z)

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy: Purchased: Quantity (million kw.-hrs.)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (million kw.-hrs.)
	Illinois--Continued						
28	Chemicals and allied products	1963	35,928	20,523	1,447	15,405	230
		1962	36,147	20,316	1,339	15,831	237
		1958	26,108	16,607	849	9,501	234
29	Petroleum and coal products	1963	17,396	8,881	950	8,515	188
		1962	16,068	8,165	878	7,903	189
		1958	13,321	7,635	627	5,686	266
30	Rubber and plastics products, n.e.c	1963	8,491	2,426	471	6,065	4
		1962	7,436	2,278	380	5,158	-
		1958	5,694	1,977	267	3,717	(Z)
32	Stone, clay, and glass products	1963	32,069	23,544	738	8,525	221
		1962	30,972	22,443	714	8,529	226
		1958	26,840	20,486	536	6,354	258
33	Primary metal industries	1963	129,586	92,045	3,687	37,541	687
		1962	134,392	97,778	3,503	36,614	665
		1958	120,187	94,096	2,518	26,091	(S)
34	Fabricated metal products	1963	28,370	12,446	1,036	15,924	32
		1962	28,627	13,083	933	15,544	32
		1958	26,039	12,764	895	13,275	28
35	Machinery, except electrical	1963	34,710	14,034	1,593	20,676	43
		1962	34,223	13,800	1,503	20,423	38
		1958	28,899	13,780	1,062	15,119	(S)
36	Electrical machinery	1963	21,073	8,153	973	12,920	110
		1962	22,499	9,033	987	13,466	106
		1958	16,582	6,937	669	9,645	(S)
37	Transportation equipment	1963	10,895	3,273	574	7,622	16
		1962	10,198	3,600	561	6,598	13
		1958	10,422	3,987	553	6,435	-
38	Instruments and related products	1963	4,004	1,528	203	2,476	9
		1962	4,675	1,956	197	2,719	9
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
39	Miscellaneous manufacturing, including ordnance	1963	4,914	1,976	156	2,938	1
		1962	5,364	2,276	180	3,088	52
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Michigan	1963	388,034	211,903	14,851	176,131	4,019
		1962	394,438	229,488	13,352	164,950	4,005
		1958	298,764	170,014	10,109	128,750	3,446
20	Food and kindred products	1963	20,693	11,854	575	8,839	60
		1962	21,974	12,870	545	9,104	65
		1958	18,431	11,109	449	7,322	64
22	Textile mill products	1963	647	182	31	465	-
		1962	596	157	30	439	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
23	Apparel and related products	1963	1,606	452	89	1,154	-
		1962	1,547	512	69	1,035	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
24	Lumber and wood products	1963	4,313	2,722	97	1,591	60
		1962	2,947	1,607	73	1,340	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
25	Furniture and fixtures	1963	3,212	1,442	102	1,770	(Z)
		1962	2,854	1,372	83	1,482	-
		1958	2,819	1,354	77	1,465	(S)
26	Paper and allied products	1963	26,168	18,396	683	7,772	1,037
		1962	26,403	18,947	638	7,456	1,117
		1958	20,996	15,826	397	5,170	848
27	Printing and publishing	1963	3,174	1,017	116	2,157	(Z)
		1962	3,997	937	174	3,060	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
28	Chemicals and allied products	1963	44,406	30,693	1,532	13,713	1,971
		1962	44,589	31,290	1,247	13,299	1,950
		1958	40,069	29,560	1,129	10,509	1,689
29	Petroleum and coal products	1963	9,485	5,762	363	3,723	-
		1962	7,224	3,638	340	3,586	-
		1958	5,477	3,264	183	2,213	-
30	Rubber and plastics products, n.e.c	1963	6,893	2,824	295	4,069	98
		1962	6,067	2,434	304	3,633	105
		1958	4,765	2,371	167	2,394	(S)

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy: Purchased: Quantity (million kw.-hrs.)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (million kw.-hrs.)
	Michigan--Continued						
32	Stone, clay, and glass products	1963	23,928	17,508	493	6,420	308
		1962	18,417	13,603	354	4,814	295
		1958	17,256	13,155	305	4,101	331
33	Primary metal industries	1963	87,403	55,722	2,922	31,681	356
		1962	109,708	80,731	2,591	28,977	352
		1958	63,553	38,754	2,148	24,799	(S)
34	Fabricated metal products	1963	22,873	9,106	872	13,767	7
		1962	22,655	9,406	843	13,249	7
		1958	17,434	7,723	598	9,711	13
35	Machinery, except electrical	1963	25,099	9,090	1,082	16,009	31
		1962	22,266	8,485	926	13,781	29
		1958	20,586	8,084	798	12,502	5
36	Electrical machinery	1963	5,793	2,391	248	3,402	4
		1962	5,251	2,125	218	3,126	6
		1958	4,753	2,189	164	2,564	(S)
37	Transportation equipment	1963	97,563	40,889	5,144	56,674	85
		1962	92,323	38,365	4,724	53,958	77
		1958	72,019	32,036	3,314	39,983	(S)
38	Instruments and related products	1963	1,930	573	104	1,357	-
		1962	1,360	382	86	978	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Wisconsin	1963	148,253	80,404	5,162	67,849	1,872
		1962	148,452	83,145	4,748	65,307	1,817
		1958	127,079	74,799	3,742	52,280	1,529
20	Food and kindred products	1963	27,852	17,541	632	10,311	182
		1962	26,408	17,318	542	9,090	175
		1958	27,259	18,139	523	9,120	138
22	Textile mill products	1963	1,083	523	32	560	(D)
		1962	1,078	540	30	538	(S)
		1958	1,026	541	29	485	(S)
23	Apparel and related products	1963	415	145	15	270	(Z)
		1962	(S)	(S)	(S)	(S)	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
24	Lumber and wood products	1963	3,526	1,754	97	1,772	16
		1962	3,155	1,527	79	1,628	24
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
25	Furniture and fixtures	1963	901	397	27	504	(D)
		1962	1,020	509	24	511	(S)
		1958	1,231	652	31	579	4
26	Paper and allied products	1963	38,286	22,377	1,524	15,909	1,417
		1962	36,955	21,834	1,377	15,121	1,361
		1958	32,243	20,864	1,092	11,379	1,144
27	Printing and publishing	1963	2,769	851	117	1,918	(Z)
		1962	2,653	945	105	1,708	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
28	Chemicals and allied products	1963	2,836	1,676	75	1,160	15
		1962	2,809	1,672	72	1,137	14
		1958	2,617	1,756	59	861	16
30	Rubber and plastics products, n.e.c.	1963	2,524	940	118	1,584	(Z)
		1962	2,971	998	147	1,973	-
		1958	2,321	822	111	1,499	(S)
31	Leather and leather products	1963	2,444	1,402	61	1,042	30
		1962	2,362	1,342	58	1,020	16
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
33	Primary metal industries	1963	16,924	9,633	557	7,291	18
		1962	17,896	10,788	522	7,108	9
		1958	12,847	7,693	376	5,154	(S)
34	Fabricated metal products	1963	8,692	4,337	305	4,355	17
		1962	8,906	4,647	285	4,259	13
		1958	7,149	3,664	218	3,485	(S)
35	Machinery, except electrical	1963	16,206	7,679	598	8,527	121
		1962	16,717	8,585	583	8,132	150
		1958	14,047	7,394	453	6,653	100
36	Electrical machinery	1963	7,152	2,423	371	4,729	26
		1962	6,089	2,227	273	3,862	23
		1958	5,637	2,174	239	3,463	27

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy: Purchased: Quantity (million kw.-hrs.)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (million kw.-hrs.)
	Wisconsin--Continued						
37	Transportation equipment	1963	7,961	3,660	378	4,301	5
		1962	8,153	3,841	355	4,312	6
		1958	6,223	3,310	222	2,913	6
39	Miscellaneous manufacturing, including ordnance	1963	1,538	673	57	865	-
		1962	1,653	752	46	901	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	West North Central	1963	327,949	168,749	13,306	159,200	2,374
		1962	320,255	168,512	12,203	151,743	2,357
		1958	247,757	134,736	8,875	113,021	2,250
	Minnesota	1963	73,933	38,711	2,620	35,222	662
		1962	71,706	38,066	2,463	33,640	663
		1958	60,664	35,873	1,700	24,791	689
20	Food and kindred products	1963	25,277	14,596	732	10,681	112
		1962	24,178	14,265	688	9,913	111
		1958	22,761	14,065	565	8,696	114
22	Textile mill products	1963	428	166	18	262	-
		1962	331	134	17	197	-
		1958	381	215	9	166	7
23	Apparel and related products	1963	401	108	14	293	-
		1962	301	107	9	194	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
26	Paper and allied products	1963	11,734	6,924	465	4,810	468
		1962	11,503	7,079	456	4,424	467
		1958	9,984	7,328	239	2,656	473
27	Printing and publishing	1963	1,829	488	87	1,341	(D)
		1962	2,790	895	89	1,895	(S)
		1958	1,399	375	52	1,024	1
28	Chemicals and allied products	1963	4,106	2,407	152	1,699	(Z)
		1962	2,772	1,077	142	1,695	-
		1958	3,225	2,152	74	1,073	-
29	Petroleum and coal products	1963	1,871	482	146	1,389	(D)
		1962	1,743	586	114	1,157	(S)
		1958	1,078	325	74	753	9
32	Stone, clay, and glass products	1963	5,822	3,246	184	2,576	(Z)
		1962	6,168	3,703	175	2,465	-
		1958	4,396	2,515	143	1,881	-
33	Primary metal industries	1963	3,426	2,242	83	1,184	(D)
		1962	3,696	2,526	75	1,170	(S)
		1958	3,671	2,802	55	869	63
34	Fabricated metal products	1963	2,920	1,193	107	1,727	(Z)
		1962	3,793	1,705	134	2,088	-
		1958	2,307	1,021	73	1,286	-
35	Machinery, except electrical	1963	5,304	1,938	215	3,366	(Z)
		1962	4,907	1,902	183	3,005	-
		1958	4,492	1,885	179	2,607	-
37	Transportation equipment	1963	1,265	592	49	673	25
		1962	1,625	802	60	823	23
		1958	1,006	576	43	430	17
39	Miscellaneous manufacturing, including ordnance	1963	1,437	534	77	903	(D)
		1962	1,453	579	74	874	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Iowa	1963	70,828	39,355	2,688	31,473	690
		1962	72,754	40,343	2,566	32,411	667
		1958	52,401	29,081	1,855	23,320	564
20	Food and kindred products	1963	24,793	14,175	824	10,618	237
		1962	25,991	14,893	776	11,098	228
		1958	19,253	11,197	555	8,056	196
24	Lumber and wood products	1963	696	400	17	296	(D)
		1962	585	320	16	265	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
28	Chemicals and allied products	1963	5,114	2,614	312	2,500	53
		1962	4,384	2,062	316	2,322	52
		1958	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	Iowa--Continued						
34	Fabricated metal products	1963	1,727	687	63	1,040	(Z)
		1962	1,370	587	47	783	-
		1958	1,535	596	49	939	(Z)
35	Machinery, except electrical	1963	7,967	5,157	175	2,810	134
		1962	6,811	4,402	129	2,409	108
		1958	5,684	3,626	124	2,058	(S)
36	Electrical machinery	1963	3,029	1,013	145	2,016	-
		1962	2,705	864	132	1,841	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Missouri	1963	98,687	46,419	4,238	52,268	562
		1962	98,056	48,390	3,862	49,666	562
		1958	77,044	39,482	2,858	37,562	530
20	Food and kindred products	1963	16,460	7,905	636	8,555	152
		1962	18,045	9,288	600	8,757	155
		1958	14,576	7,525	517	7,051	178
23	Apparel and related products	1963	1,560	488	54	1,072	1
		1962	1,500	552	45	948	-
		1958	1,272	456	41	816	-
24	Lumber and wood products	1963	1,668	1,007	34	661	(D)
		1962	1,987	1,093	56	894	(S)
		1958	1,173	704	22	469	-
26	Paper and allied products	1963	2,729	1,066	115	1,663	7
		1962	2,180	888	96	1,292	7
		1958	1,889	751	84	1,138	7
27	Printing and publishing	1963	2,651	602	145	2,049	(Z)
		1962	2,416	516	126	1,900	-
		1958	2,080	531	89	1,549	-
28	Chemicals and allied products	1963	12,308	7,503	435	4,805	252
		1962	11,580	7,397	383	4,183	245
		1958	8,336	5,402	248	2,934	190
29	Petroleum and coal products	1963	1,579	1,255	20	324	115
		1962	1,506	1,222	23	284	110
		1958	792	550	14	242	110
31	Leather and leather products	1963	1,488	416	82	1,072	(D)
		1962	1,476	442	50	1,034	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
32	Stone, clay, and glass products	1963	18,760	12,899	540	5,861	43
		1962	18,445	12,611	527	5,834	40
		1958	16,034	11,243	441	4,791	42
33	Primary metal industries	1963	11,036	3,567	722	7,469	-
		1962	11,886	4,461	666	7,425	-
		1958	9,811	4,416	472	5,395	-
34	Fabricated metal products	1963	4,753	1,857	187	2,896	(Z)
		1962	4,791	2,091	169	2,700	-
		1958	3,938	1,685	148	2,253	-
35	Machinery, except electrical	1963	4,071	1,307	183	2,764	(D)
		1962	3,820	1,526	157	2,294	(S)
		1958	2,805	966	112	1,839	1
36	Electrical machinery	1963	4,221	1,452	184	2,769	-
		1962	3,744	1,030	192	2,714	-
		1958	2,513	826	110	1,687	-
37	Transportation equipment	1963	9,341	3,205	571	6,136	(Z)
		1962	8,763	3,041	511	5,722	-
		1958	7,003	2,698	372	4,305	-
38	Instruments and related products	1963	496	132	18	364	-
		1962	371	126	16	245	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
39	Miscellaneous manufacturing, including ordnance	1963	2,256	598	179	1,658	(Z)
		1962	2,268	1,015	103	1,253	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	North Dakota	1963	2,730	1,495	65	1,235	47
		1962	1,904	940	46	964	51
		1958	1,954	1,060	40	894	35
20	Food and kindred products	1963	1,609	776	41	833	-
		1962	1,334	631	33	703	-
		1958	1,241	631	28	610	(S)

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
	West North Central--Continued						
	South Dakota	1963	4,258	2,255	139	2,003	(D)
		1962	6,050	3,161	187	2,889	(S)
		1958	2,979	1,486	81	1,493	2
20	Food and kindred products	1963	3,145	1,780	92	1,365	(D)
		1962	5,028	2,563	169	2,465	(S)
		1958	2,134	1,204	55	930	(S)
	Nebraska	1963	24,178	13,793	928	10,385	13
		1962	20,177	11,294	820	8,883	13
		1958	16,470	9,007	671	7,463	13
20	Food and kindred products	1963	11,788	7,092	395	4,696	12
		1962	9,657	5,351	362	4,306	13
		1958	8,788	4,801	352	3,987	(S)
27	Printing and publishing	1963	558	135	28	423	-
		1962	531	180	(S)	(S)	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
28	Chemicals and allied products	1963	3,683	2,273	183	1,410	-
		1962	3,139	2,111	147	1,028	-
		1958	1,874	1,061	102	813	-
34	Fabricated metal products	1963	674	269	29	405	-
		1962	650	272	31	378	-
		1958	539	223	22	316	-
35	Machinery, except electrical	1963	547	256	23	291	-
		1962	397	191	14	206	-
		1958	452	203	18	249	-
36	Electrical machinery	1963	556	169	40	387	(Z)
		1962	502	146	39	356	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
37	Transportation equipment	1963	421	155	15	266	-
		1962	399	155	15	244	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Kansas	1963	53,335	26,721	2,628	26,614	398
		1962	49,608	26,318	2,259	23,290	399
		1958	36,245	18,747	1,670	17,498	417
20	Food and kindred products	1963	8,259	3,246	407	5,013	(D)
		1962	8,992	4,167	388	4,825	(S)
		1958	6,662	2,603	333	4,059	2
26	Paper and allied products	1963	775	380	29	395	(D)
		1962	660	329	25	331	(S)
		1958	535	272	20	263	(S)
27	Printing and publishing	1963	818	169	34	649	(Z)
		1962	372	103	16	269	-
		1958	456	136	17	320	(S)
28	Chemicals and allied products	1963	13,800	7,689	763	6,111	266
		1962	10,545	6,508	495	4,037	262
		1958	6,975	4,800	274	2,175	264
29	Petroleum and coal products	1963	11,171	6,873	517	4,298	28
		1962	11,000	6,974	485	4,026	33
		1958	7,141	4,220	365	2,921	(S)
32	Stone, clay, and glass products	1963	7,813	5,425	219	2,388	85
		1962	7,281	5,082	207	2,199	88
		1958	6,336	4,479	180	1,857	(S)
33	Primary metal industries	1963	1,184	445	66	739	-
		1962	1,213	438	74	775	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
34	Fabricated metal products	1963	1,116	386	50	730	(Z)
		1962	1,101	419	40	682	-
		1958	871	270	37	601	-
35	Machinery, except electrical	1963	1,256	402	52	854	-
		1962	1,496	630	62	866	-
		1958	1,156	401	47	755	(Z)
36	Electrical machinery	1963	686	169	42	517	-
		1962	664	172	42	492	-
		1958	435	114	26	321	(Z)
37	Transportation equipment	1963	4,626	1,010	325	3,616	-
		1962	4,361	945	297	3,416	-
		1958	3,603	718	251	2,885	-

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	South Atlantic	1963	749,543	398,523	38,487	351,020	14,096
		1962	696,670	368,976	35,474	327,694	13,923
		1958	566,260	317,496	25,142	248,764	12,746
	Delaware	1963	27,155	16,387	1,077	10,768	161
		1962	24,039	14,224	875	9,815	199
		1958	22,213	14,858	636	7,355	164
20	Food and kindred products	1963	2,087	893	70	1,194	(Z)
		1962	2,168	1,044	64	1,124	-
		1958	2,129	1,017	61	1,112	(S)
28	Chemicals and allied products	1963	8,091	4,774	361	3,317	143
		1962	6,336	4,139	212	2,197	178
		1958	4,654	3,461	115	1,193	(S)
31	Leather and leather products	1963	397	244	9	153	(D)
		1962	353	229	8	124	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
34	Fabricated metal products	1963	433	193	16	240	1
		1962	522	232	23	290	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Maryland	1963	100,191	54,425	3,868	45,766	1,252
		1962	94,231	51,292	3,378	42,939	1,443
		1958	79,316	44,045	2,701	35,271	1,284
20	Food and kindred products	1963	10,983	6,058	296	4,925	33
		1962	9,364	5,342	239	4,022	31
		1958	9,698	5,622	232	4,076	(S)
23	Apparel and related products	1963	1,136	408	40	728	-
		1962	1,038	410	30	628	-
		1958	953	381	25	572	-
25	Furniture and fixtures	1963	713	214	32	499	-
		1962	221	97	7	124	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
26	Paper and allied products	1963	5,722	3,572	178	2,150	(D)
		1962	5,050	3,233	128	1,650	(S)
		1958	4,609	2,959	123	1,817	(S)
27	Printing and publishing	1963	1,597	331	79	1,266	(Z)
		1962	(S)	(S)	(S)	(S)	-
		1958	1,038	275	39	763	-
28	Chemicals and allied products	1963	12,383	6,639	597	5,744	5
		1962	11,584	6,012	550	5,572	6
		1958	9,209	5,289	396	3,920	(S)
30	Rubber and plastics products, n.e.c.	1963	2,746	858	149	1,888	(D)
		1962	2,575	916	130	1,659	(S)
		1958	2,073	801	101	1,272	(S)
31	Leather and leather products	1963	187	105	3	82	(D)
		1962	183	111	3	72	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
33	Primary metal industries	1963	33,480	19,915	1,370	13,565	825
		1962	31,280	19,163	1,070	12,117	1,080
		1958	25,577	15,227	892	10,350	(S)
34	Fabricated metal products	1963	3,582	1,438	128	2,144	-
		1962	3,260	1,369	116	1,891	-
		1958	3,048	1,319	108	1,729	-
35	Machinery, except electrical	1963	1,968	647	91	1,321	(Z)
		1962	1,917	596	87	1,321	-
		1958	1,534	574	62	960	-
36	Electrical machinery	1963	2,589	733	136	1,856	(Z)
		1962[r]	2,402	769	117	1,633	-
		1958	2,005	833	78	1,172	-
37	Transportation equipment	1963	6,445	2,609	323	3,836	-
		1962	6,045	2,331	313	3,714	-
		1958	5,368	2,138	248	3,230	-
39	Miscellaneous manufacturing, including ordnance	1963	528	180	21	348	(D)
		1962[r]	474	164	23	310	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy: Purchased: Quantity (million kw.-hrs.)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (million kw.-hrs.)
	South Atlantic--Continued						
	District of Columbia	1963	3,164	1,363	109	1,801	(D)
		1962	3,046	1,182	122	1,864	(S)
		1958	2,857	1,328	89	1,529	-
20	Food and kindred products	1963	1,023	418	38	605	(D)
		1962	1,198	545	45	653	(S)
		1958	1,210	596	40	614	-
27	Printing and publishing	1963	1,245	366	55	879	1
		1962	1,427	360	67	1,067	-
		1958	901	244	37	657	-
	Virginia	1963	107,322	66,408	3,896	40,914	2,043
		1962	102,348	63,004	3,679	39,344	2,175
		1958	86,185	56,877	2,679	29,308	1,951
20	Food and kindred products	1963	8,560	4,316	272	4,244	(D)
		1962	7,684	3,843	243	3,841	(S)
		1958	6,957	3,495	213	3,462	4
21	Tobacco manufactures	1963	2,593	1,191	101	1,402	(D)
		1962	2,476	1,145	93	1,331	(S)
		1958	2,249	1,111	77	1,138	(S)
22	Textile mill products	1963	9,164	3,769	560	5,395	(D)
		1962	8,695	3,530	555	5,165	(S)
		1958	7,909	3,318	454	4,591	(S)
23	Apparel and related products	1963	1,197	372	47	825	-
		1962	1,082	434	31	648	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
24	Lumber and wood products	1963	6,470	4,756	98	1,714	39
		1962	4,787	2,982	106	1,805	38
		1958	3,508	2,325	60	1,183	12
25	Furniture and fixtures	1963	2,128	526	113	1,602	33
		1962	1,750	458	90	1,292	28
		1958	1,514	591	61	923	25
26	Paper and allied products	1963	15,793	12,298	394	3,495	1,033
		1962	15,346	11,994	300	3,352	1,036
		1958	12,899	10,689	221	2,210	898
27	Printing and publishing	1963	1,010	245	46	765	-
		1962	708	201	34	507	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
28	Chemicals and allied products	1963	35,073	26,441	1,125	8,632	802
		1962	31,728	23,325	1,109	8,403	870
		1958	29,085	22,772	845	6,313	(S)
31	Leather and leather products	1963	441	217	13	224	-
		1962	407	201	10	206	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
32	Stone, clay, and glass products	1963	9,054	6,029	266	3,025	(D)
		1962	9,108	6,225	249	2,883	(S)
		1958	7,406	5,138	194	2,268	(S)
33	Primary metal industries	1963	4,705	2,904	166	1,801	(Z)
		1962	5,169	3,377	168	1,792	-
		1958	5,264	4,292	67	972	(Z)
39	Miscellaneous manufacturing, including ordnance	1963	331	99	15	232	(D)
		1962	(S)	(S)	(S)	(S)	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	West Virginia	1963	103,830	56,900	7,494	46,930	2,950
		1962	101,091	55,217	7,312	45,874	2,874
		1958	80,504	48,574	4,570	31,930	2,617
20	Food and kindred products	1963	1,804	909	57	895	-
		1962	1,910	1,004	52	906	-
		1958	1,988	1,159	47	829	-
22	Textile mill products	1963	221	120	7	101	-
		1962	168	93	5	75	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
23	Apparel and related products	1963	147	43	13	104	-
		1962	69	(S)	(S)	(S)	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
24	Lumber and wood products	1963	2,535	2,119	20	416	(D)
		1962	1,001	745	12	256	(S)
		1958	1,144	813	15	331	(S)

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	West Virginia--Continued						
26	Paper and allied products	1963	726	500	11	226	10
		1962	530	350	10	180	11
		1958	447	283	11	164	(S)
27	Printing and publishing	1963	416	158	16	258	-
		1962	781	154	(S)	(S)	-
		1958	275	85	11	190	-
28	Chemicals and allied products	1963	39,296	20,762	2,967	18,534	1,143
		1962	38,701	20,985	2,890	17,716	1,143
		1958	32,073	19,400	1,945	12,673	953
31	Leather and leather products	1963	294	236	3	58	(D)
		1962	255	204	3	51	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
32	Stone, clay, and glass products	1963	18,591	14,864	381	3,727	(D)
		1962	18,086	14,441	371	3,645	(S)
		1958	14,597	11,664	300	2,933	(S)
33	Primary metal industries	1963	32,325	13,722	3,608	18,603	1,795
		1962	32,610	14,064	3,551	18,546	1,699
		1958	22,902	11,807	1,896	11,095	(S)
34	Fabricated metal products	1963	1,888	943	69	945	-
		1962	1,946	951	68	995	-
		1958	1,694	817	58	877	(S)
37	Transportation equipment	1963	829	280	56	549	-
		1962	600	211	39	389	-
		1958	520	221	26	299	-
	North Carolina	1963	122,907	56,661	7,108	66,246	1,272
		1962	110,177	50,355	6,436	59,822	1,313
		1958	85,524	41,059	4,513	44,465	1,701
20	Food and kindred products	1963	8,231	4,049	282	4,182	(Z)
		1962	7,374	3,553	261	3,821	-
		1958	6,536	3,486	213	3,050	(S)
21	Tobacco manufactures	1963	4,962	2,802	230	2,160	97
		1962	3,458	2,149	126	1,309	112
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
22	Textile mill products	1963	50,606	15,991	4,118	34,615	68
		1962	47,963	15,336	3,899	32,627	91
		1958	40,520	13,557	3,026	26,963	87
23	Apparel and related products	1963	2,134	687	83	1,447	-
		1962	1,472	619	50	853	-
		1958	1,187	498	50	689	-
24	Lumber and wood products	1963	8,921	6,603	144	2,318	(D)
		1962	5,845	3,811	101	2,034	(S)
		1958	4,776	2,985	114	1,791	12
25	Furniture and fixtures	1963	3,878	1,075	214	2,803	(D)
		1962	3,893	1,107	222	2,786	(S)
		1958	3,080	899	158	2,181	3
26	Paper and allied products	1963	14,699	10,934	471	3,765	917
		1962	14,022	10,444	419	3,578	934
		1958	9,227	7,405	222	1,822	(S)
27	Printing and publishing	1963	889	245	38	644	(Z)
		1962	840	162	(S)	(S)	-
		1958	714	208	30	506	-
28	Chemicals and allied products	1963	5,364	3,470	206	1,894	184
		1962	4,247	2,912	113	1,335	170
		1958	4,363	3,446	71	917	(S)
32	Stone, clay, and glass products	1963	8,301	6,031	220	2,270	(Z)
		1962	9,373	6,676	242	2,697	-
		1958	4,659	3,662	73	997	(S)
34	Fabricated metal products	1963	1,447	623	62	824	-
		1962	1,150	405	49	745	-
		1958	757	349	27	408	(S)
35	Machinery, except electrical	1963	1,545	650	64	895	(Z)
		1962	1,103	424	48	679	-
		1958	979	399	39	580	(Z)
	South Carolina	1963	97,738	47,228	6,752	50,510	2,048
		1962	89,337	43,053	6,188	46,284	1,822
		1958	75,716	37,145	4,849	38,571	1,889

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	South Carolina—Continued						
20	Food and kindred products	1963	2,751	1,273	102	1,478	-
		1962	3,039	1,350	128	1,689	-
		1958	2,605	1,381	89	1,224	-
21	Tobacco manufactures	1963	99	47	4	52	-
		1962	71	(S)	(S)	(S)	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
22	Textile mill products	1963	43,045	14,464	3,931	28,581	209
		1962	40,907	13,547	3,765	27,360	246
		1958	36,020	12,124	3,146	23,896	239
23	Apparel and related products	1963	1,352	451	51	901	-
		1962	1,332	413	54	919	-
		1958	753	229	31	524	(Z)
24	Lumber and wood products	1963	5,083	3,729	104	1,354	(D)
		1962	3,256	2,238	61	1,018	(S)
		1958	2,852	1,727	66	1,125	(S)
25	Furniture and fixtures	1963	384	129	23	255	-
		1962	364	107	17	257	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
26	Paper and allied products	1963	12,147	8,917	432	3,230	779
		1962	9,451	7,726	235	1,725	560
		1958	8,627	7,096	176	1,531	557
28	Chemicals and allied products	1963	17,302	9,747	1,243	7,555	1,058
		1962	16,735	9,297	1,221	7,438	1,015
		1958	15,799	9,750	928	6,049	(S)
32	Stone, clay, and glass products	1963	8,274	6,091	271	2,183	-
		1962	8,125	6,021	273	2,104	-
		1958	4,843	3,614	96	1,229	-
36	Electrical machinery	1963	881	208	81	673	-
		1962	699	201	64	498	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Georgia	1963	99,173	52,395	4,621	46,778	2,319
		1962	88,877	45,423	4,274	43,454	2,154
		1958	70,786	35,931	3,306	34,855	1,476
20	Food and kindred products	1963	11,119	5,197	451	5,922	27
		1962	11,223	5,174	455	6,049	29
		1958	9,351	4,505	354	4,846	(S)
22	Textile mill products	1963	49,325	16,253	1,863	33,072	133
		1962	23,786	7,593	1,810	16,193	143
		1958	19,063	5,497	1,516	13,566	114
23	Apparel and related products	1963	2,592	798	109	1,794	(Z)
		1962	1,739	561	71	1,178	-
		1958	1,647	564	65	1,083	-
24	Lumber and wood products	1963	7,461	5,748	97	1,713	2
		1962	5,831	4,466	84	1,365	-
		1958	5,391	3,802	81	1,589	(S)
26	Paper and allied products	1963	17,155	14,740	268	2,415	2,059
		1962	15,472	13,237	246	2,235	1,892
		1958	11,967	10,266	167	1,701	1,236
28	Chemicals and allied products	1963	9,907	4,577	605	5,330	86
		1962	8,147	3,503	531	4,644	82
		1958	6,250	2,890	377	3,360	(S)
32	Stone, clay, and glass products	1963	10,464	7,571	283	2,893	11
		1962	7,852	5,682	201	2,170	8
		1958	6,030	4,589	124	1,441	(S)
34	Fabricated metal products	1963	2,162	850	96	1,312	(Z)
		1962	2,114	912	93	1,202	-
		1958	967	382	36	585	(S)
37	Transportation equipment	1963	4,382	1,295	361	3,087	-
		1962	3,574	1,001	315	2,573	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Florida	1963	88,063	46,756	3,563	41,307	2,050
		1962	83,524	45,226	3,210	38,298	1,942
		1958	63,159	37,679	1,799	25,480	1,664
20	Food and kindred products	1963	14,423	6,009	574	8,414	29
		1962	13,443	5,694	559	7,749	13
		1958	13,209	6,224	422	6,985	6

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
	Florida—Continued						
21	Tobacco manufactures	1963	284	66	14	218	-
		1962	297	91	13	206	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
24	Lumber and wood products	1963	3,564	2,481	63	1,083	(Z)
		1962	3,031	2,185	38	846	-
		1958	2,300	1,328	51	972	(S)
25	Furniture and fixtures	1963	670	130	43	540	(Z)
		1962	754	170	29	584	-
		1958	607	128	22	479	-
26	Paper and allied products	1963	17,404	14,841	236	2,563	1,761
		1962	17,592	15,124	240	2,468	1,695
		1958	15,543	14,031	117	1,512	1,444
27	Printing and publishing	1963	2,443	368	136	2,075	(Z)
		1962	1,436	278	72	1,158	-
		1958	1,333	229	57	1,104	(Z)
28	Chemicals and allied products	1963	24,485	12,361	1,445	12,124	226
		1962	23,182	11,376	1,361	11,806	206
		1958	13,094	6,478	667	6,616	175
32	Stone, clay, and glass products	1963	11,739	7,452	336	4,287	25
		1962	10,559	6,590	339	3,969	24
		1958	9,690	6,664	231	3,026	(S)
34	Fabricated metal products	1963	2,260	578	100	1,682	2
		1962	2,547	767	101	1,780	-
		1958	1,901	669	66	1,232	-
	East South Central	1963	528,983	223,123	57,773	305,860	3,664
		1962	510,282	211,881	57,180	298,401	4,414
		1958	441,933	166,659	56,816	275,274	2,912
	Kentucky	1963	148,058	44,106	21,497	103,952	157
		1962	142,412	39,321	21,647	103,091	147
		1958	125,382	31,231	21,042	94,151	121
20	Food and kindred products	1963	9,000	5,146	261	3,854	22
		1962	9,571	5,539	270	4,032	20
		1958	9,063	5,230	282	3,833	20
21	Tobacco manufactures	1963	2,156	952	95	1,204	-
		1962	2,221	1,008	93	1,213	-
		1958	1,592	682	73	910	-
22	Textile mill products	1963	648	266	26	382	-
		1962	462	142	23	320	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
23	Apparel and related products	1963	718	219	25	499	(Z)
		1962	905	374	27	531	-
		1958	529	181	19	348	-
24	Lumber and wood products	1963	2,869	2,126	41	743	(D)
		1962	2,190	1,336	39	854	(S)
		1958	1,939	1,294	33	645	(S)
25	Furniture and fixtures	1963	558	201	22	357	(D)
		1962	618	234	26	384	(S)
		1958	543	221	18	322	(S)
26	Paper and allied products	1963	1,133	496	51	637	-
		1962	765	293	36	472	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
27	Printing and publishing	1963	1,041	275	66	766	(Z)
		1962	757	227	37	530	-
		1958	710	166	37	544	-
28	Chemicals and allied products	1963	82,434	7,484	18,487	74,950	84
		1962	81,704	6,647	18,912	75,057	74
		1958	77,389	3,981	18,925	73,408	(S)
29	Petroleum and coal products	1963	2,563	1,477	149	1,086	-
		1962	2,870	1,776	150	1,094	-
		1958	1,966	1,126	99	840	-
31	Leather and leather products	1963	198	89	6	109	-
		1962	274	144	6	130	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
32	Stone, clay, and glass products	1963	6,042	3,917	195	2,125	36
		1962	4,776	3,138	155	1,638	28
		1958	3,680	2,575	96	1,105	(S)

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	Kentucky—Continued						
33	Primary metal industries	1963	24,760	16,715	1,221	8,045	(D)
		1962	21,683	13,607	1,073	8,076	(S)
		1958	15,887	10,672	774	5,215	(S)
34	Fabricated metal products	1963	3,080	1,396	131	1,684	(D)
		1962	3,060	1,607	110	1,453	(S)
		1958	2,899	1,683	93	1,216	1
35	Machinery, except electrical	1963	3,559	1,561	183	1,998	(Z)
		1962	3,617	1,562	185	2,055	-
		1958	2,616	1,096	135	1,520	-
36	Electrical machinery	1963	5,204	1,113	422	4,091	-
		1962	4,906	1,108	381	3,798	-
		1958	4,316	1,516	323	2,800	-
37	Transportation equipment	1963	1,142	378	65	764	-
		1962	1,028	339	57	689	-
		1958	1,008	344	87	664	-
	Tennessee	1963	176,061	56,276	24,837	119,785	1,072
		1962	170,772	55,628	24,922	115,144	1,632
		1958	165,422	46,084	27,335	119,338	1,021
20	Food and kindred products	1963	9,109	4,836	403	4,273	(D)
		1962	10,144	5,702	450	4,442	(S)
		1958	8,003	4,739	362	3,264	(S)
22	Textile mill products	1963	5,222	2,287	452	2,935	(Z)
		1962	4,695	1,947	435	2,748	-
		1958	4,316	1,702	373	2,614	(S)
23	Apparel and related products	1963	1,643	576	71	1,067	-
		1962	1,357	559	52	798	-
		1958	972	385	41	587	-
24	Lumber and wood products	1963	3,709	2,576	68	1,133	14
		1962	2,442	1,245	75	1,197	17
		1958	2,223	1,209	79	1,014	19
25	Furniture and fixtures	1963	1,872	576	71	1,296	-
		1962	1,152	380	63	772	-
		1958	796	272	43	524	-
26	Paper and allied products	1963	10,073	5,454	817	4,619	(D)
		1962	9,172	4,890	781	4,282	(S)
		1958	6,820	3,864	523	2,956	(S)
27	Printing and publishing	1963	1,133	310	59	823	(Z)
		1962	844	316	52	528	-
		1958	736	224	49	512	-
28	Chemicals and allied products	1963	93,945	18,469	17,699	75,476	581
		1962	95,470	20,514	17,913	74,956	1,159
		1958	103,962	19,527	21,209	84,435	559
30	Rubber and plastics products, n.e.c.	1963	2,433	928	211	1,505	-
		1962	1,975	730	191	1,245	-
		1958	1,453	537	139	916	-
31	Leather and leather products	1963	764	286	38	478	-
		1962	724	295	46	429	-
		1958	549	249	28	300	-
32	Stone, clay, and glass products	1963	12,747	9,216	545	3,531	(Z)
		1962	10,291	6,777	553	3,514	-
		1958	7,714	5,366	354	2,348	-
33	Primary metal industries	1963	21,368	4,867	3,622	16,501	-
		1962	21,880	7,049	3,564	14,831	-
		1958	18,346	2,784	3,537	15,562	-
34	Fabricated metal products	1963	3,235	1,845	156	1,390	1
		1962	2,705	1,493	108	1,212	-
		1958	3,249	2,103	147	1,146	-
35	Machinery, except electrical	1963	1,621	828	69	793	(Z)
		1962	1,436	778	75	658	-
		1958	1,193	643	60	550	-
36	Electrical machinery	1963	3,531	1,257	379	2,274	(Z)
		1962	3,791	1,515	423	2,276	-
		1958	2,879	1,255	279	1,624	-
37	Transportation equipment	1963	1,586	746	109	840	-
		1962	896	414	62	482	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	Tennessee—Continued						
39	Miscellaneous manufacturing, including ordnance	1963	723	320	28	403	(Z)
		1962	598	236	26	362	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Alabama	1963	159,581	97,231	9,432	62,350	1,685
		1962	156,529	93,794	8,911	62,735	1,906
		1958	123,669	74,035	7,329	49,634	1,233
20	Food and kindred products	1963	5,370	2,149	238	3,221	(Z)
		1962	5,686	2,237	266	3,449	-
		1958	4,108	1,695	199	2,413	-
21	Tobacco manufactures	1963	54	15	3	39	-
		1962	58	(S)	(S)	(S)	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
22	Textile mill products	1963	8,879	2,415	831	6,464	13
		1962	8,199	2,255	799	5,944	8
		1958	7,516	2,093	700	5,423	(S)
23	Apparel and related products	1963	1,243	403	58	840	-
		1962	1,162	404	43	758	-
		1958	619	224	91	395	-
24	Lumber and wood products	1963	6,436	4,707	105	1,729	1
		1962	5,726	3,804	124	1,922	6
		1958	4,131	2,691	88	1,440	(S)
25	Furniture and fixtures	1963	347	101	16	246	-
		1962	211	64	9	147	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
26	Paper and allied products	1963	15,651	10,864	699	4,787	1,194
		1962	14,328	10,028	581	4,300	1,274
		1958	9,315	6,679	359	2,636	(S)
28	Chemicals and allied products	1963	17,065	8,693	1,360	8,372	204
		1962	14,743	7,700	1,080	7,043	195
		1958	10,857	5,417	896	5,440	(S)
29	Petroleum and coal products	1963	1,321	1,077	16	244	-
		1962	1,020	837	10	183	-
		1958	833	683	13	150	-
30	Rubber and plastics products, n.e.c.	1963	2,886	986	261	1,900	-
		1962	2,547	920	241	1,627	-
		1958	2,223	832	205	1,391	-
32	Stone, clay, and glass products	1963	12,636	9,413	410	3,223	-
		1962	12,120	8,988	400	3,132	-
		1958	11,261	8,432	376	2,829	-
33	Primary metal industries	1963	81,144	53,886	5,093	27,258	272
		1962	84,516	54,136	5,022	30,380	422
		1958	67,507	43,189	4,135	24,318	118
34	Fabricated metal products	1963	2,446	1,207	94	1,239	1
		1962	2,278	1,160	90	1,118	-
		1958	1,990	997	81	993	-
35	Machinery, except electrical	1963	824	252	38	572	-
		1962	658	252	29	406	-
		1958	648	277	24	371	-
36	Electrical machinery	1963	670	229	51	441	-
		1962	687	226	52	461	-
		1958	492	144	36	348	-
37	Transportation equipment	1963	1,514	550	100	964	-
		1962	1,217	395	88	822	-
		1958	1,217	403	81	814	-
	Mississippi	1963	45,283	25,510	2,007	19,773	750
		1962	40,569	23,138	1,699	17,431	729
		1958	27,460	15,309	1,110	12,151	537
20	Food and kindred products	1963	5,268	2,017	245	3,251	(D)
		1962	5,628	2,438	239	3,190	(S)
		1958	4,181	1,973	152	2,208	(S)
23	Apparel and related products	1963	1,009	281	35	728	-
		1962	899	253	36	646	-
		1958	647	197	29	450	-
24	Lumber and wood products	1963	8,553	6,185	168	2,368	264
		1962	4,897	3,013	110	1,884	7
		1958	3,063	1,802	72	1,261	13

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	Mississippi—Continued						
26	Paper and allied products	1963	5,692	4,639	110	1,053	474
		1962	9,268	7,647	158	1,621	705
		1958	6,795	5,059	184	1,736	505
28	Chemicals and allied products	1963	10,775	5,507	812	5,268	10
		1962	8,548	4,363	668	4,185	16
		1958	4,720	2,459	334	2,261	(S)
34	Fabricated metal products	1963	947	284	54	663	-
		1962	918	326	45	592	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
35	Machinery, except electrical	1963	641	204	28	437	1
		1962	314	120	13	194	-
		1958	348	125	15	223	-
36	Electrical machinery	1963	827	305	44	522	-
		1962	678	274	33	404	-
		1958	430	190	25	240	-
37	Transportation equipment	1963	839	156	78	683	-
		1962	747	106	65	641	-
		1958	1,340	717	61	623	-
	West South Central	1963	622,261	422,646	24,557	199,615	22,370
		1962	568,889	393,108	20,857	175,781	23,080
		1958	397,441	272,051	16,022	125,360	19,771
	Arkansas	1963	53,345	31,178	2,864	22,167	1,716
		1962	48,789	27,961	2,525	20,828	1,181
		1958	36,572	20,670	2,711	15,902	1,309
22	Textile mill products	1963	805	282	39	523	-
		1962	779	280	41	499	-
		1958	483	174	25	309	-
24	Lumber and wood products	1963	6,311	3,925	167	2,386	53
		1962	6,133	3,436	145	2,697	74
		1958	3,265	1,756	94	1,509	(S)
25	Furniture and fixtures	1963	1,003	251	49	752	(Z)
		1962	1,065	283	42	782	-
		1958	705	210	37	495	-
26	Paper and allied products	1963	7,482	5,537	190	1,945	864
		1962	6,973	4,914	210	2,059	802
		1958	4,598	2,876	177	1,722	(S)
28	Chemicals and allied products	1963	9,589	8,432	119	1,157	322
		1962	9,028	7,680	131	1,348	301
		1958	6,214	5,717	46	497	269
32	Stone, clay, and glass products	1963	4,200	2,933	120	1,267	(Z)
		1962	3,623	2,393	115	1,230	-
		1958	2,336	1,630	62	706	(S)
36	Electrical machinery	1963	990	268	67	722	-
		1962	798	162	60	636	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
39	Miscellaneous manufacturing, including ordnance	1963	339	70	19	269	-
		1962	394	84	20	310	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Louisiana	1963	144,587	105,339	4,922	39,248	7,469
		1962	135,762	101,825	4,150	33,937	7,962
		1958	93,450	68,155	3,274	25,295	5,875
20	Food and kindred products	1963	10,342	6,343	265	3,999	102
		1962	8,456	5,323	224	3,133	89
		1958	7,798	4,626	227	3,172	(S)
24	Lumber and wood products	1963	4,108	2,693	87	1,415	20
		1962	3,135	1,801	72	1,334	21
		1958	2,692	1,608	65	1,084	(S)
26	Paper and allied products	1963	14,434	11,339	376	3,095	1,394
		1962	13,481	10,468	339	3,013	1,216
		1958	10,884	7,866	375	3,018	1,000
28	Chemicals and allied products	1963	47,863	33,133	2,125	14,730	2,202
		1962	42,984	30,924	1,670	12,060	2,119
		1958	22,003	14,353	1,205	7,650	1,219
29	Petroleum and coal products	1963	44,646	35,695	1,426	8,951	310
		1962	44,835	36,618	1,291	8,217	415
		1958	33,561	27,886	1,018	5,675	324

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy: Purchased: Quantity (million kw.-hrs.)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (million kw.-hrs.)
	Louisiana—Continued						
32	Stone, clay, and glass products	1963	7,095	4,744	234	2,351	(D)
		1962	6,796	4,687	207	2,109	(S)
		1958	4,687	2,900	185	1,787	(S)
33	Primary metal industries	1963	11,528	10,023	191	1,505	(D)
		1962	11,093	9,901	155	1,192	(S)
		1958	8,555	7,967	50	588	(S)
37	Transportation equipment	1963	999	218	63	781	-
		1962	920	254	49	666	-
		1958	829	151	50	678	-
	Oklahoma	1963	38,115	21,268	1,799	16,847	123
		1962	33,837	19,493	1,518	14,344	127
		1958	26,525	15,297	1,266	11,228	153
20	Food and kindred products	1963	4,099	1,581	175	2,518	8
		1962	3,388	1,244	153	2,144	6
		1958	3,697	1,657	142	2,040	(S)
23	Apparel and related products	1963	195	48	7	147	-
		1962	177	(S)	(S)	(S)	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
26	Paper and allied products	1963	1,077	441	84	636	-
		1962	970	380	80	590	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
27	Printing and publishing	1963	583	91	29	492	-
		1962	279	34	(S)	(S)	-
		1958	456	115	22	341	(Z)
28	Chemicals and allied products	1963	1,768	346	210	1,422	-
		1962	1,755	872	135	883	-
		1958	929	157	122	772	-
29	Petroleum and coal products	1963	13,190	9,535	500	3,655	108
		1962	12,433	8,797	470	3,636	115
		1958	9,453	6,673	383	2,780	107
32	Stone, clay, and glass products	1963	7,306	4,775	287	2,531	(Z)
		1962	5,669	3,662	225	2,007	-
		1958	4,313	2,971	151	1,342	(S)
33	Primary metal industries	1963	4,012	2,592	141	1,420	-
		1962	3,392	2,445	91	947	-
		1958	2,724	2,156	100	568	-
34	Fabricated metal products	1963	1,153	373	48	780	-
		1962	926	251	44	675	-
		1958	901	264	39	637	-
35	Machinery, except electrical	1963	1,574	445	73	1,129	-
		1962	1,575	600	60	975	-
		1958	1,174	354	51	820	(S)
37	Transportation equipment	1963	819	227	78	592	-
		1962	636	173	63	463	-
		1958	898	216	(S)	(S)	-
	Texas	1963	386,214	264,861	14,972	121,353	13,062
		1962	350,501	243,829	12,664	106,672	13,809
		1958	240,864	167,929	8,771	72,935	12,434
20	Food and kindred products	1963	21,775	7,366	1,186	14,409	76
		1962	21,837	8,240	1,069	13,597	67
		1958	17,200	6,023	929	11,177	65
22	Textile mill products	1963	1,667	348	125	1,319	-
		1962	1,604	325	137	1,279	-
		1958	1,437	281	127	1,156	-
23	Apparel and related products	1963	1,832	426	78	1,406	(Z)
		1962	2,117	493	77	1,624	-
		1958	1,249	295	43	954	(S)
24	Lumber and wood products	1963	4,688	2,759	136	1,929	61
		1962	4,160	2,247	128	1,913	41
		1958	2,698	1,359	80	1,339	51
25	Furniture and fixtures	1963	1,048	265	40	783	-
		1962	1,125	339	53	786	-
		1958	870	228	34	642	(S)
26	Paper and allied products	1963	7,886	4,477	409	3,409	831
		1962	6,555	3,534	357	3,021	853
		1958	5,228	3,251	266	1,977	706

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958. 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	Texas—Continued						
27	Printing and publishing	1963	2,819	499	151	2,320	(Z)
		1962	1,900	273	111	1,627	-
		1958	2,000	417	98	1,583	(S)
28	Chemicals and allied products	1963	109,062	77,265	4,572	31,797	3,519
		1962	97,232	69,853	3,951	27,379	5,043
		1958	56,272	40,076	2,529	16,196	3,250
29	Petroleum and coal products	1963	143,634	120,608	3,298	23,026	1,848
		1962	130,190	110,689	2,754	19,501	1,878
		1958	90,037	78,188	1,653	11,849	1,821
30	Rubber and plastics products, n.e.c	1963	2,058	410	158	1,648	-
		1962	2,020	531	137	1,489	-
		1958	1,229	358	86	871	-
32	Stone, clay, and glass products	1963	26,636	18,240	850	8,396	79
		1962	21,738	14,784	732	6,954	83
		1958	17,924	12,377	610	5,547	93
33	Primary metal industries	1963	39,403	25,991	2,383	13,412	6,651
		1962	37,065	25,629	1,737	11,436	5,844
		1958	28,307	20,197	1,265	8,110	6,446
34	Fabricated metal products	1963	5,423	1,755	257	3,668	1
		1962	5,230	2,009	219	3,221	-
		1958	3,908	1,386	172	2,522	(S)
35	Machinery, except electrical	1963	7,004	1,871	422	5,133	(Z)
		1962	6,727	2,104	384	4,623	-
		1958	5,295	1,678	326	3,617	-
36	Electrical machinery	1963	2,713	361	232	2,352	(Z)
		1962	2,643	427	214	2,216	-
		1958	922	145	67	777	-
37	Transportation equipment	1963	6,702	1,621	566	5,081	(Z)
		1962	6,611	1,680	515	4,931	-
		1958	5,186	1,317	431	3,869	-
38	Instruments and related products	1963	319	64	16	255	(Z)
		1962	333	100	15	233	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Mountain	1963	148,383	82,899	8,694	65,484	1,400
		1962	136,296	76,006	8,535	60,290	1,198
		1958	107,895	63,720	6,819	44,175	1,104
	Montana	1963	21,721	11,938	2,261	9,783	41
		1962	18,763	9,805	2,445	8,958	51
		1958	17,477	9,180	2,293	8,297	32
24	Lumber and wood products	1963	3,931	2,103	161	1,828	28
		1962	2,867	1,588	104	1,279	37
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
27	Printing and publishing	1963	119	26	4	93	-
		1962	101	60	(S)	(S)	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
29	Petroleum and coal products	1963	1,312	688	77	624	-
		1962	1,277	575	84	702	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Idaho	1963	27,997	12,566	2,548	15,431	152
		1962	25,198	12,105	2,416	13,093	131
		1958	20,629	10,711	1,814	9,198	153
20	Food and kindred products	1963	6,529	4,760	141	1,769	33
		1962	6,359	4,833	147	1,526	30
		1958	4,033	2,971	84	1,062	(S)
24	Lumber and wood products	1963	4,349	2,407	186	1,942	25
		1962	4,097	2,443	178	1,654	9
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
28	Chemicals and allied products	1963	10,247	1,073	1,745	9,174	-
		1962	8,304	823	1,622	7,481	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Wyoming	1963	5,761	4,157	157	1,604	32
		1962	5,704	4,231	162	1,473	23
		1958	4,589	3,435	129	1,154	30
20	Food and kindred products	1963	946	720	13	226	9
		1962	802	584	(S)	(S)	7
		1958	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	Wyoming—Continued						
29	Petroleum and coal products	1963	3,477	2,659	102	818	(D)
		1962	3,588	2,774	107	814	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Colorado	1963	29,245	17,039	982	12,206	405
		1962	30,221	16,575	1,059	13,646	350
		1958	23,719	14,960	714	8,759	318
20	Food and kindred products	1963	8,558	5,635	207	2,923	90
		1962	8,492	5,136	225	3,356	62
		1958	6,799	4,655	159	2,144	71
26	Paper and allied products	1963	371	142	18	229	(Z)
		1962	303	131	15	172	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
28	Chemicals and allied products	1963	1,795	664	115	1,131	(D)
		1962	1,822	628	120	1,194	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
29	Petroleum and coal products	1963	1,646	872	84	774	-
		1962	1,215	523	76	692	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
32	Stone, clay, and glass products	1963	4,838	3,037	168	1,801	-
		1962	5,391	3,393	159	1,998	-
		1958	4,585	2,927	161	1,658	-
36	Electrical machinery	1963	411	85	20	326	-
		1962	413	105	15	308	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	New Mexico	1963	6,643	3,443	228	3,200	11
		1962	5,683	3,223	172	2,460	-
		1958	4,161	2,339	132	1,822	3
20	Food and kindred products	1963	1,066	339	41	727	-
		1962	874	295	30	579	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
28	Chemicals and allied products	1963	295	114	8	181	1
		1962	220	104	10	116	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
32	Stone, clay, and glass products	1963	2,025	1,209	65	816	-
		1962	1,513	865	48	648	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Arizona	1963	24,086	13,095	945	10,991	273
		1962	22,788	12,869	810	9,919	209
		1958	14,198	7,945	536	6,253	96
20	Food and kindred products	1963	2,712	864	140	1,848	1
		1962	2,426	818	119	1,608	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
33	Primary metal industries	1963	8,366	6,203	243	2,163	79
		1962	8,756	6,232	260	2,524	45
		1958	5,861	4,026	219	1,835	-
36	Electrical machinery	1963	1,092	115	93	977	-
		1962	689	57	61	632	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Utah	1963	24,777	16,665	795	8,112	482
		1962	19,806	12,917	754	6,889	425
		1958	17,028	11,297	613	5,731	449
20	Food and kindred products	1963	2,920	1,583	115	1,337	(D)
		1962	2,590	1,143	111	1,447	(S)
		1958	2,381	1,261	85	1,120	(S)
27	Printing and publishing	1963	241	54	12	187	-
		1962	175	(S)	(S)	(S)	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
29	Petroleum and coal products	1963	2,773	1,741	116	1,032	-
		1962	1,689	975	89	714	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
32	Stone, clay, and glass products	1963	3,537	2,438	103	1,099	-
		1962	2,816	1,972	82	844	-
		1958	3,042	2,168	81	874	-
33	Primary metal industries	1963	11,066	9,162	243	1,904	477
		1962	9,064	7,123	296	1,941	420
		1958	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy: Purchased: Quantity (million kw.-hrs.)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (million kw.-hrs.)
	Utah—Continued						
34	Fabricated metal products	1963	495	207	17	288	-
		1962	535	333	13	202	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
35	Machinery, except electrical	1963	472	148	24	324	-
		1962	388	117	21	271	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
36	Electrical machinery	1963	263	110	10	153	-
		1962	210	121	7	89	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
37	Transportation equipment	1963	1,414	520	88	894	-
		1962	970	445	70	525	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Nevada	1963	8,153	3,996	779	4,157	5
		1962	8,133	4,281	717	3,852	8
		1958	6,094	3,853	588	2,241	23
32	Stone, clay, and glass products	1963	2,211	1,758	37	453	-
		1962	2,270	1,712	46	558	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Pacific	1963	570,805	273,597	40,885	297,208	2,528
		1962	542,804	265,622	38,876	277,182	2,838
		1958	415,673	210,608	30,445	205,065	2,490
	Washington	1963	107,987	49,064	16,132	58,923	588
		1962	102,960	51,667	14,584	51,293	1,065
		1958	81,017	40,204	12,734	40,813	864
20	Food and kindred products	1963	9,553	5,951	264	3,602	22
		1962	9,961	6,556	327	3,405	21
		1958	7,487	4,823	244	2,664	(S)
23	Apparel and related products	1963	163	61	5	102	-
		1962	224	93	9	131	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
24	Lumber and wood products	1963	12,285	7,288	442	4,997	125
		1962	11,852	6,882	491	4,970	231
		1958	8,687	5,160	352	3,527	-
25	Furniture and fixtures	1963	303	92	13	211	(Z)
		1962	255	68	18	187	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
26	Paper and allied products	1963	27,590	18,421	2,289	9,169	398
		1962	25,993	17,397	2,124	8,596	766
		1958	19,265	14,092	1,448	5,176	631
27	Printing and publishing	1963	608	155	28	453	-
		1962	586	182	36	404	-
		1958	542	175	25	367	-
28	Chemicals and allied products	1963	15,354	5,049	3,473	10,305	34
		1962	14,175	4,776	3,317	9,399	37
		1958	12,807	4,781	4,287	8,026	(S)
29	Petroleum and coal products	1963	2,001	730	159	1,271	-
		1962	2,251	1,137	141	1,114	-
		1958	1,934	1,117	109	817	-
33	Primary metal industries	1963	25,620	3,682	8,466	21,938	-
		1962	20,765	4,524	7,088	16,241	-
		1958	18,157	3,301	5,494	14,856	-
34	Fabricated metal products	1963	1,444	634	76	810	-
		1962	1,575	777	72	798	-
		1958	1,350	673	59	677	-
37	Transportation equipment	1963	2,820	1,219	200	1,601	(Z)
		1962	5,051	2,062	455	2,989	-
		1958	3,301	1,369	291	1,932	-
	Oregon	1963	62,571	33,430	5,550	29,141	401
		1962	60,333	30,977	6,220	29,356	437
		1958	48,879	27,439	4,358	21,440	429
20	Food and kindred products	1963	6,051	3,785	192	2,266	16
		1962	5,899	3,808	182	2,091	16
		1958	5,216	3,468	171	1,748	(S)

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	Oregon—Continued						
24	Lumber and wood products	1963	26,741	15,990	1,012	10,751	312
		1962	23,733	13,415	1,002	10,318	340
		1958	19,640	12,093	703	7,547	351
25	Furniture and fixtures	1963	238	79	11	159	-
		1962	311	116	12	195	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
26	Paper and allied products	1963	10,597	6,150	951	4,447	60
		1962	11,132	6,511	977	4,621	69
		1958	8,392	5,300	714	3,092	56
28	Chemicals and allied products	1963	1,778	722	46	1,056	-
		1962	1,397	596	289	801	-
		1958	1,262	505	246	757	-
29	Petroleum and coal products	1963	436	355	6	81	-
		1962	467	383	7	84	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
32	Stone, clay, and glass products	1963	3,984	3,213	57	771	13
		1962	3,242	2,676	90	566	12
		1958	3,297	2,750	76	547	(S)
33	Primary metal industries	1963	9,017	1,753	3,089	7,264	-
		1962	9,493	1,684	3,441	7,809	-
		1958	7,523	1,633	2,292	5,890	-
34	Fabricated metal products	1963	800	345	33	455	-
		1962	1,183	562	45	621	-
		1958	775	392	31	383	(Z)
	California	1963	388,383	184,324	18,855	204,059	1,041
		1962	368,925	176,792	17,776	192,133	894
		1958	278,721	138,849	13,198	139,872	851
20	Food and kindred products	1963	54,249	30,786	1,729	23,463	235
		1962	55,986	32,455	1,834	23,531	124
		1958	44,337	26,104	1,464	18,233	100
22	Textile mill products	1963	1,680	820	48	860	(Z)
		1962	1,328	575	48	753	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
23	Apparel and related products	1963	3,648	778	143	2,870	(Z)
		1962	3,312	610	124	2,702	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
24	Lumber and wood products	1963	21,215	10,527	834	10,688	109
		1962	17,452	7,723	728	9,729	110
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
25	Furniture and fixtures	1963	3,113	864	120	2,249	13
		1962	2,977	828	115	2,149	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
26	Paper and allied products	1963	16,697	8,594	799	8,103	351
		1962	16,646	9,231	730	7,415	327
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
27	Printing and publishing	1963	6,005	1,183	313	4,822	(Z)
		1962	6,532	1,367	311	5,165	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
28	Chemicals and allied products	1963	40,718	17,492	2,739	23,226	(D)
		1962	37,623	18,011	2,378	19,612	(S)
		1958	27,124	12,550	1,740	14,574	(S)
29	Petroleum and coal products	1963	49,063	30,742	2,243	18,321	169
		1962	38,725	21,546	2,233	17,179	161
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
30	Rubber and plastics products, n.e.c.	1963	8,574	2,382	516	6,192	(Z)
		1962	8,292	2,596	520	5,696	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
32	Stone, clay, and glass products	1963	57,909	41,459	1,643	16,450	155
		1962	56,239	40,214	1,578	16,025	169
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
33	Primary metal industries	1963	38,709	18,035	2,069	20,674	4
		1962	39,663	18,794	1,980	20,869	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
34	Fabricated metal products	1963	15,837	5,242	690	10,595	1
		1962	16,672	6,045	682	10,627	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

TABLE 3. Consumption for Heat and Power by Divisions, States and Selected Major Industry Groups: 1958, 1962, and 1963--Continued

Code	Division, State, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
	California—Continued						
35	Machinery, except electrical	1963	11,802	2,768	634	9,034	(Z)
		1962	12,781	3,704	616	9,077	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
36	Electrical machinery	1963	18,130	3,838	1,230	14,292	(Z)
		1962r	15,700	3,691	1,065	12,009	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
37	Transportation equipment	1963	26,007	5,701	1,989	20,306	2
		1962	27,090	6,326	1,982	20,764	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
38	Instruments and related products	1963	1,831	391	98	1,440	(Z)
		1962r	2,027	446	126	1,581	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
39	Miscellaneous manufacturing, including ordnance	1963	12,800	2,608	1,000	10,192	(D)
		1962r	9,219	2,349	705	6,870	(S)
		1958	(NA)	(NA)	(NA)	(NA)	(NA)
	Alaska	1963	3,542	3,030	32	512	252
		1962	3,483	2,948	24	535	256
		1958	1,866	1,425	21	441	130
	Hawaii	1963	8,322	3,749	316	4,573	246
		1962	7,103	3,238	273	3,865	185
		1958	5,190	2,691	134	2,499	216

Note: Figures may not add to totals due to independent rounding.

(D) - Disclosure
(NA) - Not available
r - Revised
(S) - Withheld because the estimate did not meet publication standards.
(Z) - Less than 500 thousand kilowatt hours.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	STANDARD CONSOLIDATED AREAS						
	Chicago, Ill.-Northwestern Indiana, total..	1963	365,191	215,884	12,082	149,307	3,164
		1962	361,383	213,627	11,633	147,756	3,204
20	Food and kindred products.....	1963	28,533	16,444	872	12,089	308
		1962	30,421	17,526	920	12,895	290
23	Apparel and related products.....	1963	1,625	532	56	1,093	(Z)
		1962	1,433	485	47	948	-
25	Furniture and fixtures.....	1963	3,895	1,607	127	2,288	-
		1962	3,340	1,555	105	1,785	-
26	Paper and allied products.....	1963	9,336	4,303	372	5,033	45
		1962	9,305	4,703	346	4,602	48
27	Printing and publishing.....	1963	8,939	2,762	410	6,177	2
		1962	8,482	2,423	380	6,059	304
28	Chemicals and allied products.....	1963	26,374	15,347	1,037	11,027	299
		1962	24,415	13,948	917	10,467	(S)
29	Petroleum and coal products.....	1963	14,125	9,206	529	4,919	541
		1962	12,303	7,501	501	4,802	(S)
32	Stone, clay, and glass products.....	1963	16,507	10,852	446	5,655	30
		1962	17,133	11,088	445	6,045	53
33	Primary metal industries.....	1963	171,689	121,235	4,582	50,454	1,801
		1962	168,265	119,277	4,459	48,988	1,838
34	Fabricated metal products.....	1963	23,459	10,178	889	13,281	1
		1962	24,090	10,877	821	13,213	(S)
35	Machinery, except electrical.....	1963	18,422	7,652	778	10,770	2
		1962	19,040	7,785	747	11,255	(S)
36	Electrical machinery.....	1963	15,892	6,149	727	9,743	110
		1962	17,603	7,101	771	10,502	106
37	Transportation equipment.....	1963	8,733	3,175	494	5,558	16
		1962	7,970	2,770	450	5,200	(S)
39	Miscellaneous manufacturing, including ordnance.....	1963	3,603	1,346	114	2,257	(Z)
		1962	4,016	1,571	130	2,445	-
	New York, N.Y.-Northeastern New Jersey, total.....	1963	315,998	139,442	11,834	176,556	793
		1962	276,496	121,358	9,707	155,138	630
20	Food and kindred products.....	1963	41,424	19,953	1,210	21,471	114
		1962	35,094	19,944	943	15,150	132
22	Textile mill products.....	1963	14,202	7,665	378	6,537	9
		1962	15,840	8,025	412	7,815	(S)
23	Apparel and related products.....	1963	19,465	4,003	822	15,462	3
		1962	19,539	4,392	774	15,147	(S)
25	Furniture and fixtures.....	1963	3,459	1,111	111	2,348	(Z)
		1962	3,613	1,292	128	2,321	-
26	Paper and allied products.....	1963	20,672	11,040	753	9,632	169
		1962	15,601	8,503	530	7,098	335
27	Printing and publishing.....	1963	14,118	2,852	607	11,266	1
		1962	14,869	2,868	614	12,001	-
28	Chemicals and allied products.....	1963	43,724	24,712	1,585	19,012	330
		1962	30,171	16,303	1,081	13,868	109
30	Rubber and plastics products, n.e.c.....	1963	10,297	3,121	522	7,176	6
		1962	10,392	3,315	444	7,077	(S)
31	Leather and leather products.....	1963	2,541	728	93	1,813	(Z)
		1962	2,353	585	113	1,768	-
32	Stone, clay, and glass products.....	1963	12,845	8,215	303	4,630	31
		1962	10,815	5,899	276	4,916	7
33	Primary metal industries.....	1963	27,703	14,716	1,047	12,987	76
		1962	18,771	9,132	641	9,639	9
34	Fabricated metal products.....	1963	19,157	7,516	664	11,641	(Z)
		1962	19,280	7,767	637	11,513	-
35	Machinery, except electrical.....	1963	12,448	4,626	452	7,822	18
		1962	13,133	5,434	441	7,699	17
36	Electrical machinery.....	1963	22,872	6,689	1,155	16,183	2
		1962	20,149	6,339	917	13,810	(S)

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy: Purchased: Quantity (million kw.-hrs.)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (million kw.-hrs.)
	STANDARD CONSOLIDATED AREAS—Continued						
	New York, N.Y.-Northeastern New Jersey—Con.						
37	Transportation equipment	1963	15,040	5,595	704	9,445	5
		1962	14,352	5,592	600	8,760	8
38	Instruments and related products	1963	5,855	1,929	259	3,926	-
		1962	6,195	1,793	252	4,402	-
39	Miscellaneous manufacturing, including ordnance	1963	11,077	3,010	439	8,067	(Z)
		1962	11,035	3,812	432	7,223	-
	STANDARD METROPOLITAN STATISTICAL AREAS						
	Akron, Ohio, total	1963	27,699	16,167	1,073	11,532	984
		1962	26,143	15,535	1,007	10,608	971
27	Printing and publishing	1963	195	66	7	129	-
		1962	119	47	5	72	-
28	Chemicals and allied products	1963	6,009	5,445	54	564	(D)
		1962	6,187	5,536	64	651	(S)
30	Rubber and plastics products, n.e.c.	1963	11,025	5,968	561	5,057	(D)
		1962	10,559	5,759	539	4,800	385
33	Primary metal industries	1963	764	272	36	492	-
		1962	622	218	30	404	-
34	Fabricated metal products	1963	2,586	1,160	110	1,426	-
		1962	2,284	1,132	94	1,152	-
37	Transportation equipment	1963	1,887	516	138	1,371	-
		1962	1,522	403	116	1,119	-
39	Miscellaneous manufacturing, including ordnance	1963	247	123	9	124	-
		1962	150	102	(S)	(S)	-
	Albany-Schenectady-Troy, N.Y., total	1963	24,230	14,639	938	9,591	260
		1962	23,243	15,291	738	7,952	257
22	Textile mill products	1963	848	443	36	405	-
		1962	731	416	29	315	-
23	Apparel and related products	1963	302	122	9	180	-
		1962	224	107	8	117	-
26	Paper and allied products	1963	5,491	3,866	175	1,625	(D)
		1962	5,025	3,721	136	1,304	222
27	Printing and publishing	1963	348	127	15	221	-
		1962	329	153	13	176	-
28	Chemicals and allied products	1963	1,526	976	56	550	-
		1962	1,402	888	54	514	-
32	Stone, clay, and glass products	1963	4,064	2,432	192	1,632	-
		1962	1,372	808	58	564	-
33	Primary metal industries	1963	2,825	1,294	136	1,531	(D)
		1962	4,666	3,238	124	1,428	(S)
	Allentown-Bethlehem-Easton, Pa.-N.J., total	1963	38,433	24,156	1,235	14,277	632
		1962	37,526	23,847	1,140	13,679	560
20	Food and kindred products	1963	1,811	875	71	936	(D)
		1962	1,275	728	47	547	(S)
22	Textile mill products	1963	1,851	918	62	933	-
		1962	1,474	691	50	783	-
23	Apparel and related products	1963	850	263	31	587	(D)
		1962	792	205	26	587	-
26	Paper and allied products	1963	709	260	37	449	(D)
		1962	695	256	38	439	(S)
27	Printing and publishing	1963	318	109	12	209	-
		1962	321	95	13	226	-
32	Stone, clay, and glass products	1963	13,959	9,383	438	4,576	190
		1962	14,897	9,773	482	5,124	204
34	Fabricated metal products	1963	1,581	619	68	962	(D)
		1962	2,287	785	112	1,502	(S)
35	Machinery, except electrical	1963	1,104	465	41	639	-
		1962	1,542	442	71	1,100	(S)

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
	STANDARD METROPOLICAT STATISTICAL AREAS—Continued						
	Allentown-Bethlehem-Easton, Pa.-N.J.—Con.						
36	Electrical machinery	1963	1,664	483	116	1,181	(D)
		1962	2,678	334	204	2,344	-
	Atlanta, Ga., total	1963	18,435	7,602	1,017	10,833	(D)
		1962	17,106	6,579	976	10,527	(S)
20	Food and kindred products	1963	2,845	1,388	114	1,457	(Z)
		1962	2,776	1,265	116	1,511	-
22	Textile mill products	1963	1,316	458	93	858	(D)
		1962	1,324	461	93	863	(S)
26	Paper and allied products	1963	1,250	504	64	746	-
		1962	1,152	436	60	716	-
28	Chemicals and allied products	1963	650	257	21	393	(Z)
		1962	674	213	29	461	-
31	Leather and leather products	1963	186	76	10	110	-
		1962	127	57	6	70	-
32	Stone, clay, and glass products	1963	2,585	1,823	73	762	-
		1962	1,572	1,130	45	442	-
34	Fabricated metal products	1963	848	315	40	533	(Z)
		1962	941	392	42	549	-
37	Transportation equipment	1963	3,808	1,111	337	2,697	-
		1962	3,307	909	303	2,398	-
39	Miscellaneous manufacturing, including ordnance	1963	243	71	13	172	-
		1962	349	51	19	298	-
	Baltimore, Md., total	1963	76,842	41,391	2,969	35,451	(D)
		1962	72,709	39,657	2,490	33,052	1,126
20	Food and kindred products	1963	6,921	3,995	180	2,926	(D)
		1962	6,064	3,582	155	2,482	(S)
23	Apparel and related products	1963	856	305	31	551	-
		1962	811	325	24	486	-
25	Furniture and fixtures	1963	591	168	28	423	-
		1962	150	71	5	79	-
26	Paper and allied products	1963	2,833	1,088	136	1,745	(D)
		1962	2,578	1,010	106	1,568	(S)
27	Printing and publishing	1963	1,064	228	53	836	(Z)
		1962	1,775	220	69	1,555	-
28	Chemicals and allied products	1963	8,932	5,140	313	3,792	(D)
		1962	8,283	4,683	238	3,600	6
33	Primary metal industries	1963	33,269	19,828	1,361	13,441	(D)
		1962	31,147	19,108	1,064	12,039	(S)
34	Fabricated metal products	1963	3,134	1,272	115	1,862	-
		1962	2,899	1,244	105	1,655	-
35	Machinery, except electrical	1963	1,687	542	80	1,145	(Z)
		1962	1,585	492	73	1,093	-
36	Electrical machinery	1963	2,062	599	115	1,463	(Z)
		1962	1,589	585	73	1,004	-
37	Transportation equipment	1963	4,856	1,960	240	2,896	-
		1962	4,583	1,774	232	2,809	-
	Birmingham, Ala., total	1963	63,945	51,537	1,426	12,408	(D)
		1962	67,274	50,196	1,741	17,078	352
27	Printing and publishing	1963	354	130	15	224	-
		1962	189	77	8	112	-
28	Chemicals and allied products	1963	1,998	873	152	1,125	-
		1962	1,130	508	76	622	-
32	Stone, clay, and glass products	1963	4,425	3,248	161	1,177	-
		1962	4,372	3,199	161	1,173	-
33	Primary metal industries	1963	52,407	45,274	861	7,133	(D)
		1962	56,872	44,474	1,262	12,398	352
34	Fabricated metal products	1963	1,655	859	67	796	(Z)
		1962	1,546	754	67	792	-

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	Birmingham, Ala.—Continued						
36	Electrical machinery	1963	158	64	8	94	-
		1962	141	57	6	84	-
	Boston, Mass., total	1963	53,899	23,384	1,889	30,515	213
		1962	58,999	26,962	1,972	32,037	226
20	Food and kindred products	1963	7,277	3,684	227	3,593	(D)
		1962	6,404	3,325	199	3,079	40
23	Apparel and related products	1963	1,220	231	53	989	(D)
		1962	1,478	509	55	969	-
26	Paper and allied products	1963	3,511	2,043	84	1,468	(D)
		1962	3,631	2,262	85	1,369	49
27	Printing and publishing	1963	2,072	567	78	1,505	(D)
		1962	2,492	723	100	1,769	-
29	Petroleum and coal products	1963	1,686	1,081	41	605	-
		1962	2,127	1,181	71	946	-
30	Rubber and plastics products, n.e.c.	1963	5,007	1,480	258	3,527	(D)
		1962	4,567	1,484	200	3,083	-
31	Leather and leather products	1963	2,067	1,003	50	1,064	(D)
		1962	2,097	1,063	45	1,034	(S)
34	Fabricated metal products	1963	3,800	1,481	149	2,319	(D)
		1962	3,641	1,566	101	2,075	(S)
35	Machinery, except electrical	1963	4,573	2,553	97	2,020	(D)
		1962	4,759	2,662	111	2,097	86
36	Electrical machinery	1963	6,446	1,622	320	4,824	(D)
		1962	6,479	1,866	284	4,613	-
37	Transportation equipment	1963	3,469	1,132	169	2,337	-
		1962	3,702	1,308	174	2,394	-
38	Instruments and related products	1963	2,035	669	79	1,366	-
		1962	2,168	803	77	1,365	-
	Bridgeport, Conn., total	1963	14,032	6,058	598	7,974	(D)
		1962	14,720	6,829	553	7,891	(S)
23	Apparel and related products	1963	140	50	22	90	-
		1962	102	36	4	66	-
30	Rubber and plastics products, n.e.c.	1963	1,246	686	40	560	(D)
		1962	1,252	752	32	500	(S)
32	Stone, clay, and glass products	1963	672	369	22	303	-
		1962	765	466	22	299	-
33	Primary metal industries	1963	3,858	1,867	156	1,991	-
		1962	3,815	1,933	141	1,882	-
34	Fabricated metal products	1963	1,366	545	52	821	-
		1962	1,239	606	36	633	-
35	Machinery, except electrical	1963	1,049	479	36	570	-
		1962	1,442	694	48	748	-
37	Transportation equipment	1963	2,047	598	113	1,449	-
		1962	1,790	600	97	1,190	-
38	Instruments and related products	1963	287	125	11	162	-
		1962	258	105	11	153	-
	Buffalo, N.Y., total	1963	99,567	56,668	6,629	42,899	337
		1962	103,791	60,464	6,002	43,327	339
20	Food and kindred products	1963	5,021	2,393	240	2,628	-
		1962	5,533	2,959	257	2,574	-
22	Textile mill products	1963	301	142	11	159	-
		1962	547	201	34	346	-
25	Furniture and fixtures	1963	242	142	6	100	-
		1962	214	133	6	81	-
26	Paper and allied products	1963	4,610	2,506	302	2,104	53
		1962	4,133	2,505	226	1,628	48
27	Printing and publishing	1963	694	232	37	462	-
		1962	562	177	32	385	-
28	Chemicals and allied products	1963	20,932	8,348	2,191	12,584	(D)
		1962	20,626	8,311	2,184	12,315	(S)

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
	STANDARD METROPOLITAN STATISTICAL AREAS—Con.						
	Buffalo, N.Y.—Continued						
29	Petroleum and coal products	1963	1,498	465	154	1,033	-
		1962	1,294	288	148	1,006	-
30	Rubber and plastics products, n.e.c.	1963	1,736	758	104	978	-
		1962	1,631	728	94	903	-
32	Stone, clay, and glass products	1963	5,182	3,047	242	2,135	-
		1962	6,358	3,580	367	2,778	-
33	Primary metal industries	1963	42,827	31,986	2,053	10,841	(D)
		1962	44,882	33,113	1,495	11,769	272
34	Fabricated metal products	1963	2,145	1,200	72	945	-
		1962	2,404	1,390	78	1,014	-
35	Machinery, except electrical	1963	1,960	959	167	1,001	(D)
		1962	2,288	1,163	92	1,125	(S)
36	Electrical machinery	1963	4,592	1,559	470	3,033	(D)
		1962	4,604	1,683	458	2,921	(S)
37	Transportation equipment	1963	6,984	2,539	543	4,445	-
		1962	7,872	3,778	507	4,094	-
	Canton, Ohio, total	1963	29,851	17,204	1,432	12,647	11
		1962	29,778	17,736	1,340	12,042	43
20	Food and kindred products	1963	767	346	30	421	-
		1962	1,328	492	59	836	-
28	Chemicals and allied products	1963	300	53	26	247	-
		1962	235	45	19	190	-
30	Rubber and plastics products, n.e.c.	1963	584	229	26	355	
		1962	437	191	19	246	-
32	Stone, clay, and glass products	1963	3,031	2,137	79	894	-
		1962	2,723	1,970	62	753	-
33	Primary metal industries	1963	19,635	11,910	991	7,725	(D)
		1962	19,892	12,635	958	7,257	43
34	Fabricated metal products	1963	1,466	645	58	821	-
		1962	1,423	664	54	759	-
35	Machinery, except electrical	1963	1,657	857	95	800	-
		1962	1,507	793	79	714	-
	Chattanooga, Tenn.-Ga., total	1963	15,112	9,108	945	6,004	(D)
		1962	11,598	6,582	828	5,016	(S)
20	Food and kindred products	1963	1,245	731	56	514	-
		1962	1,105	686	54	419	-
22	Textile mill products	1963	2,346	1,167	169	1,179	-
		1962	2,079	1,038	156	1,041	-
26	Paper and allied products	1963	925	548	42	377	-
		1962	928	573	68	355	-
28	Chemicals and allied products	1963	2,774	1,363	291	1,411	-
		1962	1,084	294	168	790	-
32	Stone, clay, and glass products	1963	2,178	1,571	109	607	-
		1962	1,847	1,310	101	537	-
33	Primary metal industries	1963	2,825	1,901	171	924	-
		1962	2,453	1,366	209	1,087	-
34	Fabricated metal products	1963	1,833	1,284	80	549	(D)
		1962	1,125	811	34	314	-
35	Machinery, except electrical	1963	223	108	7	115	(1)
		1962	222	111	12	111	-
	Chicago, Ill., total	1963	259,026	146,950	8,728	112,076	831
		1962	267,436	154,593	8,502	112,843	806
20	Food and kindred products	1963	26,178	14,484	844	11,694	(D)
		1962	28,065	15,555	898	12,510	(S)
23	Apparel and related products	1963	1,570	513	54	1,057	(D)
		1962	1,338	450	44	888	-
25	Furniture and fixtures	1963	3,571	1,462	112	2,109	-
		1962	2,982	1,393	89	1,589	-
26	Paper and allied products	1963	8,588	3,998	336	4,590	(D)
		1962	8,441	4,277	305	4,164	48

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	Chicago, Ill.—Continued						
27	Printing and publishing	1963	8,672	2,637	399	6,035	2
		1962	8,437	2,378	380	6,059	-
28	Chemicals and allied products	1963	18,210	10,381	654	7,829	(D)
		1962	17,580	9,603	644	7,977	(S)
29	Petroleum and coal products	1963	8,597	4,772	410	3,825	(D)
		1962	8,116	4,259	399	3,857	(S)
32	Stone, clay and glass products	1963	12,176	8,312	303	3,864	(D)
		1962	12,273	7,934	319	4,339	(S)
33	Primary metal industries	1963	91,481	68,606	2,182	22,875	(D)
		1962	98,675	75,668	2,116	23,007	401
34	Fabricated metal products	1963	21,208	9,323	764	11,885	(D)
		1962	21,501	9,870	698	11,631	(S)
35	Machinery, except electrical	1963	18,044	7,511	742	10,533	2
		1962	18,621	7,579	734	11,042	(S)
36	Electrical machinery	1963	15,826	6,128	724	9,698	(D)
		1962	17,562	7,084	770	10,478	106
37	Transportation equipment	1963	7,736	2,647	458	5,089	(D)
		1962	7,034	2,254	419	4,780	(S)
39	Miscellaneous manufacturing, including ordnance	1963	3,342	1,180	107	2,162	(D)
		1962	3,646	1,346	118	2,300	-
	Cincinnati, Ohio-Ky.; total	1963	41,848	20,097	1,848	21,751	64
		1962	37,508	17,159	1,689	20,349	71
20	Food and kindred products	1963	6,330	3,560	211	2,770	16
		1962	4,121	2,143	149	1,978	17
22	Textile mill products	1963	263	159	7	104	(D)
		1962	209	137	5	72	-
23	Apparel and related products	1963	230	83	7	147	(D)
		1962	177	64	(S)	(S)	-
25	Furniture and fixtures	1963	435	200	15	238	(D)
		1962	502	218	15	284	(S)
26	Paper and allied products	1963	4,055	2,313	144	1,742	38
		1962	3,112	1,659	117	1,453	(S)
28	Chemicals and allied products	1963	6,511	3,283	315	3,228	(D)
		1962	6,190	3,210	283	2,980	(S)
29	Petroleum and coal products	1963	1,643	1,042	59	601	-
		1962	1,503	1,002	54	501	-
30	Rubber and plastics products, n.e.c.	1963	985	383	55	602	-
		1962	876	315	49	561	-
33	Primary metal industries	1963	5,211	2,632	252	2,579	-
		1962	5,852	3,025	258	2,827	-
34	Fabricated metal products	1963	2,662	1,099	96	1,563	(D)
		1962	2,332	1,043	79	1,289	(S)
35	Machinery, except electrical	1963	2,897	1,217	111	1,680	(D)
		1962	2,559	1,109	92	1,450	(S)
36	Electrical machinery	1963	1,202	376	65	826	(D)
		1962	1,057	366	54	691	(S)
37	Transportation equipment	1963	5,650	1,800	395	3,850	-
		1962	5,348	1,528	403	3,820	-
	Cleveland, Ohio, total	1963	112,773	62,788	4,296	49,985	(D)
		1962	103,873	57,629	3,907	46,244	437
20	Food and kindred products	1963	4,138	2,127	129	2,011	-
		1962	4,139	2,036	145	2,103	-
22	Textile mill products	1963	585	261	28	324	-
		1962	636	266	38	370	-
23	Apparel and related products	1963	475	178	17	297	-
		1962	834	327	26	507	-
24	Lumber and wood products	1963	172	86	4	86	-
		1962	140	36	4	104	-
25	Furniture and fixtures	1963	620	277	33	343	(D)
		1962	636	272	18	364	-

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963—Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	Cleveland, Ohio—Continued						
26	Paper and allied products	1963	1,392	489	64	903	-
		1962	1,405	545	64	860	-
27	Printing and publishing	1963	1,661	545	65	1,116	(D)
		1962	1,528	462	59	1,066	-
28	Chemicals and allied products	1963	15,575	10,524	500	5,051	(D)
		1962	12,216	7,589	446	4,627	173
29	Petroleum and coal products	1963	2,024	960	110	1,064	-
		1962	1,877	1,061	104	816	(S)
30	Rubber and plastics products, n.e.c.	1963	2,112	719	102	1,393	-
		1962	1,436	558	69	878	-
32	Stone, clay, and glass products	1963	3,758	2,641	90	1,117	(D)
		1962	3,520	2,309	92	1,211	(S)
33	Primary metal industries	1963	48,421	33,473	1,495	14,948	(D)
		1962	44,644	31,503	1,345	13,141	160
34	Fabricated metal products	1963	7,816	3,025	293	4,791	(D)
		1962	7,971	3,116	301	4,855	-
35	Machinery, except electrical	1963	7,022	2,549	303	4,473	(D)
		1962	6,204	2,212	247	3,992	-
36	Electrical machinery	1963	3,753	1,181	179	2,572	-
		1962	4,425	1,786	176	2,639	-
37	Transportation equipment	1963	11,408	3,162	798	8,246	(D)
		1962	10,780	2,999	699	7,781	-
38	Instruments and related products	1963	305	78	13	227	-
		1962	325	104	14	221	-
39	Miscellaneous manufacturing, including ordnance	1963	1,532	511	74	1,021	(D)
		1962	641	448	10	193	-
	Columbus, Ohio, total	1963	22,230	11,261	820	10,969	26
		1962	17,103	8,424	628	8,679	(S)
20	Food and kindred products	1963	2,629	1,279	89	1,350	(D)
		1962	1,972	949	66	1,023	(S)
25	Furniture and fixtures	1963	136	54	4	82	-
		1962	115	43	3	72	-
26	Paper and allied products	1963	901	461	36	440	(D)
		1962	396	188	17	208	-
27	Printing and publishing	1963	585	152	28	433	-
		1962	283	82	13	201	-
31	Leather and leather products	1963	86	25	3	61	-
		1962	84	28	2	56	-
32	Stone, clay, and glass products	1963	3,983	3,112	80	871	-
		1962	2,326	1,749	54	577	-
33	Primary metal industries	1963	2,040	1,554	33	486	(D)
		1962	1,657	1,237	28	420	(S)
34	Fabricated metal products	1963	1,789	728	76	1,061	-
		1962	1,944	881	71	1,063	-
35	Machinery, except electrical	1963	2,062	793	88	1,269	-
		1962	1,813	744	77	1,069	-
36	Electrical machinery	1963	2,368	916	122	1,452	-
		1962	2,082	774	106	1,308	-
37	Transportation equipment	1963	1,932	406	124	1,526	-
		1962	1,780	445	110	1,335	-
38	Instruments and related products	1963	262	82	11	180	-
		1962	145	47	6	98	-
	Dallas, Texas, total	1963	20,327	8,867	1,048	11,460	162
		1962	18,888	7,628	962	11,260	46
20	Food and kindred products	1963	2,989	959	179	2,030	(D)
		1962	3,515	1,334	177	2,181	(S)

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	Dallas, Texas—Continued						
22	Textile mill products	1963	212	80	13	132	-
		1962	163	54	12	109	-
23	Apparel and related products	1963	701	146	34	555	(D)
		1962	817	104	33	713	-
25	Furniture and fixtures	1963	242	68	8	174	-
		1962	228	80	16	148	-
27	Printing and publishing	1963	767	140	42	627	(D)
		1962	698	106	41	592	-
28	Chemicals and allied products	1963	1,121	471	53	650	(D)
		1962	895	430	37	465	10
34	Fabricated metal products	1963	1,046	396	36	650	(D)
		1962	826	263	31	563	-
35	Machinery, except electrical	1963	1,008	248	47	760	-
		1962	1,388	407	68	981	-
36	Electrical machinery	1963	1,999	220	189	1,779	-
		1962	2,167	325	183	1,842	-
37	Transportation equipment	1963	1,835	342	186	1,493	(D)
		1962	1,896	329	178	1,567	-
38	Instruments and related products	1963	41	11	4	30	-
		1962	141	72	5	69	-
	Dayton, Ohio, total	1963	25,395	12,569	1,143	12,826	176
		1962	25,613	11,902	1,239	13,711	156
20	Food and kindred products	1963	1,473	793	50	680	-
		1962	1,852	996	54	856	-
22	Textile mill products	1963	112	56	4	56	-
		1962	83	49	2	34	-
26	Paper and allied products	1963	2,174	1,223	80	951	(D)
		1962	2,042	1,201	73	841	(S)
27	Printing and publishing	1963	1,655	643	92	1,012	-
		1962	1,594	575	90	1,019	-
30	Rubber and plastics products, n.e.c	1963	2,573	928	162	1,645	-
		1962	2,223	758	139	1,465	-
32	Stone, clay, and glass products	1963	2,920	2,215	61	705	(D)
		1962	2,402	1,819	51	583	(S)
33	Primary metal industries	1963	1,864	1,245	40	619	(D)
		1962	2,815	1,150	186	1,665	(S)
35	Machinery, except electrical	1963	2,756	1,269	102	1,487	(D)
		1962	2,567	1,145	103	1,422	(S)
36	Electrical machinery	1963	6,601	3,042	361	3,559	(D)
		1962	6,734	3,018	372	3,716	(S)
37	Transportation equipment	1963	1,673	445	119	1,228	-
		1962	1,702	427	122	1,275	-
	Denver, Colo., total	1963	14,762	6,662	648	8,100	121
		1962	15,303	6,464	690	8,839	93
20	Food and kindred products	1963	3,922	2,081	142	1,841	(D)
		1962	3,374	1,725	117	1,649	13
23	Apparel and related products	1963	111	49	3	62	-
		1962	77	43	(S)	(S)	-
24	Lumber and wood products	1963	171	85	5	86	-
		1962	123	71	3	52	-
26	Paper and allied products	1963	369	141	18	228	(D)
		1962	301	131	14	170	-
27	Printing and publishing	1963	490	108	21	382	-
		1962	560	159	21	401	-
28	Chemicals and allied products	1963	970	430	51	540	(D)
		1962	1,012	346	62	666	(S)
29	Petroleum and coal products	1963	1,120	536	67	584	-
		1962	859	343	60	516	-

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	Denver, Colo.—Continued						
36	Electrical machinery	1963	258	54	12	204	-
		1962	281	70	10	211	-
	Detroit, Mich., total	1963	188,856	102,914	7,286	85,942	1,462
		1962	199,214	119,548	6,590	79,666	1,458
20	Food and kindred products	1963	7,228	3,934	209	3,294	(D)
		1962	8,000	4,616	209	3,384	-
23	Apparel and related products	1963	889	209	57	680	(D)
		1962	918	282	45	636	-
27	Printing and publishing	1963	1,754	586	65	1,168	-
		1962	1,862	393	84	1,469	-
28	Chemicals and allied products	1963	19,786	13,116	682	6,670	789
		1962	19,087	13,117	601	5,970	797
30	Rubber and plastics products, n.e.c.	1963	3,386	1,697	120	1,689	(D)
		1962	3,064	1,612	112	1,452	105
32	Stone, clay, and glass products	1963	6,767	4,662	147	2,105	(D)
		1962	4,837	3,216	121	1,621	(S)
33	Primary metal industries	1963	63,542	42,349	2,085	21,193	(D)
		1962	81,706	62,105	1,829	19,601	352
34	Fabricated metal products	1963	11,534	4,749	402	6,785	(D)
		1962	11,503	4,787	403	6,716	(S)
35	Machinery, except electrical	1963	13,415	4,607	574	8,808	(D)
		1962	11,508	4,034	508	7,474	(S)
37	Transportation equipment	1963	51,896	23,108	2,586	28,788	(D)
		1962	48,287	21,493	2,345	26,794	71
39	Miscellaneous manufacturing, including ordnance	1963	789	291	31	498	-
		1962	703	413	15	290	-
	Flint, Mich., total	1963	22,825	8,729	1,310	14,096	(D)
		1962	21,162	8,389	1,174	12,773	(S)
27	Printing and publishing	1963	95	28	4	67	-
		1962	91	32	4	59	-
34	Fabricated metal products	1963	1,985	599	126	1,386	-
		1962	1,562	409	116	1,153	-
37	Transportation equipment	1963	19,096	7,162	1,139	11,934	(D)
		1962	17,374	6,324	1,025	11,050	(S)
	Fort Worth, Texas, total	1963	10,853	4,061	651	6,792	(D)
		1962	10,363	4,103	618	6,260	-
20	Food and kindred products	1963	1,851	594	111	1,257	-
		1962	1,948	627	128	1,321	-
26	Paper and allied products	1963	241	69	13	172	-
		1962	195	57	12	138	-
27	Printing and publishing	1963	279	45	15	234	(D)
		1962	172	33	11	139	-
29	Petroleum and coal products	1963	337	244	7	93	-
		1962	324	239	8	85	-
33	Primary metal industries	1963	966	322	80	644	-
		1962	680	249	51	431	-
34	Fabricated metal products	1963	372	148	14	224	-
		1962	339	148	12	191	-
35	Machinery, except electrical	1963	699	177	39	522	-
		1962	681	302	27	379	-
37	Transportation equipment	1963	2,699	598	249	2,101	-
		1962	2,653	562	231	2,091	-
	Gary-Hammond-East Chicago, Ind., total	1963	106,165	68,934	3,354	37,231	2,333
		1962	93,947	59,034	3,131	34,913	2,398
20	Food and kindred products	1963	2,355	1,960	27	395	(D)
		1962	2,356	1,971	22	385	(S)
26	Paper and allied products	1963	748	305	36	443	-
		1962	864	426	41	438	-

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	Gary-Hammond-East Chicago, Ind.—Continued						
28	Chemicals and allied products	1963	8,164	4,966	384	3,198	(D)
		1962	6,835	4,345	273	2,490	(S)
29	Petroleum and coal products	1963	5,528	4,434	119	1,094	(D)
		1962	4,187	3,242	102	945	(S)
32	Stone, clay, and glass products	1963	4,331	2,540	143	1,791	(D)
		1962	4,860	3,154	126	1,706	(S)
33	Primary metal industries	1963	80,208	52,629	2,400	27,579	(D)
		1962	69,590	43,609	2,343	25,981	1,437
34	Fabricated metal products	1963	2,251	855	125	1,396	-
		1962	2,589	1,007	123	1,582	-
37	Transportation equipment	1963	997	528	36	469	-
		1962	936	516	31	420	-
	Grand Rapids, Mich., total	1963	16,190	7,191	637	8,999	28
		1962	13,519	6,110	515	7,409	27
20	Food and kindred products	1963	1,299	673	40	626	-
		1962	947	470	29	477	-
22	Textile mill products	1963	143	41	7	102	-
		1962	108	32	6	76	-
25	Furniture and fixtures	1963	1,327	527	46	800	(D)
		1962	1,067	427	37	640	(S)
34	Fabricated metal products	1963	3,148	1,339	123	1,809	(D)
		1962	2,013	884	65	1,129	(S)
36	Electrical machinery	1963	1,164	574	47	590	-
		1962	1,034	550	35	484	-
39	Miscellaneous manufacturing, including ordnance	1963	122	56	3	66	-
		1962	52	23	(S)	(S)	-
	Greensboro-High Point, N.C., total	1963	6,986	3,246	256	3,740	1
		1962	6,473	2,906	338	3,567	-
20	Food and kindred products	1963	549	275	17	274	-
		1962	638	337	20	301	-
22	Textile mill products	1963	3,035	1,232	126	1,803	(D)
		1962	3,233	1,255	217	1,978	-
23	Apparel and related products	1963	189	68	8	121	-
		1962	150	59	4	91	-
25	Furniture and fixtures	1963	468	147	18	321	(D)
		1962	421	131	17	290	-
26	Paper and allied products	1963	200	89	7	111	-
		1962	150	64	6	86	-
28	Chemicals and allied products	1963	364	183	11	181	-
		1962	167	167	-	-	-
32	Stone, clay, and glass products	1963	961	766	11	195	-
		1962	684	540	13	144	-
34	Fabricated metal products	1963	208	91	8	117	-
		1962	170	78	6	92	-
	Hartford, Conn., total	1963	14,708	5,128	675	9,580	31
		1962	15,562	6,276	634	9,286	28
20	Food and kindred products	1963	826	367	24	459	(D)
		1962	678	326	18	352	-
22	Textile mill products	1963	898	646	14	252	(D)
		1962	816	630	11	186	(S)
26	Paper and allied products	1963	1,022	491	38	531	(D)
		1962	883	459	28	424	(S)
28	Chemicals and allied products	1963	627	454	11	173	(D)
		1962	605	(S)	(S)	(S)	(S)
34	Fabricated metal products	1963	895	374	27	521	-
		1962	938	429	25	509	-
35	Machinery, except electrical	1963	2,704	957	107	1,747	(D)
		1962	3,175	1,195	111	1,980	-

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	Hartford, Conn.—Continued						
36	Electrical machinery	1963	476	174	14	302	-
		1962	449	186	13	263	-
	Houston, Texas, total	1963	134,596	93,027	6,394	41,569	3,329
		1962	88,252	58,286	4,032	29,966	1,204
20	Food and kindred products	1963	3,267	1,413	154	1,854	(D)
		1962	3,307	1,475	153	1,832	-
24	Lumber and wood products	1963	992	729	14	263	-
		1962	213	117	6	96	-
26	Paper and allied products	1963	2,925	1,360	217	1,565	(D)
		1962	2,861	1,286	219	1,575	(S)
27	Printing and publishing	1963	426	66	25	360	-
		1962	311	41	20	270	-
28	Chemicals and allied products	1963	47,802	34,076	2,197	13,726	(D)
		1962	20,811	9,752	1,743	11,059	319
29	Petroleum and coal products	1963	54,365	45,849	1,327	8,516	642
		1962	43,000	37,484	851	5,516	671
30	Rubber and plastics products, n.e.c.	1963	344	94	20	250	-
		1962	325	58	21	267	-
32	Stone, clay, and glass products	1963	5,910	3,740	260	2,170	-
		1962	5,007	3,215	220	1,792	(S)
33	Primary metal industries	1963	13,024	4,164	1,854	8,860	(D)
		1962	6,749	2,999	487	3,750	(S)
34	Fabricated metal products	1963	1,972	547	108	1,425	(D)
		1962	2,056	849	89	1,207	-
35	Machinery, except electrical	1963	2,556	726	169	1,830	(D)
		1962	2,502	744	163	1,758	-
	Indianapolis, Ind., total	1963	29,267	12,576	1,481	16,691	64
		1962	24,490	9,644	1,318	14,846	44
20	Food and kindred products	1963	4,124	2,277	155	1,847	(D)
		1962	4,580	2,120	204	2,460	(S)
27	Printing and publishing	1963	450	88	22	362	-
		1962	358	47	18	311	-
28	Chemicals and allied products	1963	2,503	1,212	126	1,291	(D)
		1962	1,913	821	107	1,092	(S)
32	Stone, clay, and glass products	1963	2,470	1,766	65	704	-
		1962	1,458	1,045	39	413	-
33	Primary metal industries	1963	2,524	1,354	101	1,170	-
		1962	2,115	1,079	86	1,036	-
35	Machinery, except electrical	1963	2,265	867	110	1,398	-
		1962	1,607	607	74	1,000	-
36	Electrical machinery	1963	2,325	754	154	1,571	-
		1962	1,904	539	134	1,365	-
37	Transportation equipment	1963	7,398	2,382	487	5,016	(D)
		1962	6,872	2,223	450	4,649	(S)
	Jersey City, N.J., total	1963	25,975	13,856	937	12,119	55
		1962	26,110	14,235	871	11,875	57
20	Food and kindred products	1963	4,504	2,562	172	1,942	(D)
		1962	3,737	2,125	118	1,612	(S)
23	Apparel and related products	1963	1,199	260	53	939	-
		1962	1,133	418	40	715	-
25	Furniture and fixtures	1963	220	74	7	146	-
		1962	168	82	5	86	-
26	Paper and allied products	1963	1,288	715	40	573	(D)
		1962	1,029	591	30	438	(S)
27	Printing and publishing	1963	420	124	20	296	-
		1962	421	116	22	305	-
28	Chemicals and allied products	1963	3,635	2,333	100	1,302	(D)
		1962	3,848	2,408	100	1,440	(S)

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	Jersey City, N.J.—Continued						
31	Leather and leather products	1963	156	43	6	113	-
		1962	162	42	7	120	-
33	Primary metal industries	1963	2,120	997	101	1,123	-
		1962	2,085	954	100	1,131	-
34	Fabricated metal products	1963	1,828	984	48	844	-
		1962	1,646	904	52	742	-
35	Machinery, except electrical	1963	1,650	876	57	774	(D)
		1962	1,830	983	59	847	(S)
36	Electrical machinery	1963	2,286	959	119	1,327	-
		1962	2,136	701	124	1,435	-
39	Miscellaneous manufacturing, including ordnance	1963	736	230	28	506	-
		1962	572	218	19	354	-
	Kansas City, Mo.-Kans., total	1963	34,844	13,548	1,866	21,296	162
		1962	35,689	15,343	1,687	20,346	169
20	Food and kindred products	1963	5,768	2,638	242	3,130	(D)
		1962	7,294	3,734	257	3,560	(S)
23	Apparel and related products	1963	476	101	20	375	-
		1962	499	162	17	337	-
26	Paper and allied products	1963	1,434	546	56	888	(D)
		1962	1,243	551	51	692	(S)
27	Printing and publishing	1963	1,017	202	59	815	-
		1962	935	139	57	796	-
28	Chemicals and allied products	1963	1,944	1,043	62	901	(D)
		1962	1,752	971	58	781	(S)
32	Stone, clay, and glass products	1963	4,358	2,554	181	1,804	(D)
		1962	4,224	2,470	175	1,754	(S)
33	Primary metal industries	1963	6,759	1,605	511	5,154	-
		1962	6,964	2,048	456	4,916	-
34	Fabricated metal products	1963	1,293	456	52	837	(D)
		1962	1,385	579	44	806	-
37	Transportation equipment	1963	3,437	1,054	223	2,383	-
		1962	3,199	1,010	201	2,189	-
	Lancaster, Pa., total	1963	10,620	4,270	474	6,350	-
		1962	10,113	4,357	405	5,756	-
20	Food and kindred products	1963	1,595	713	75	882	-
		1962	1,416	570	51	846	-
22	Textile mill products	1963	322	73	14	249	-
		1962	237	62	12	175	-
23	Apparel and related products	1963	307	114	10	193	-
		1962	327	140	9	187	-
27	Printing and publishing	1963	197	47	8	150	-
		1962	152	22	7	130	-
31	Leather and leather products	1963	175	55	5	120	-
		1962	135	44	(S)	(S)	-
32	Stone, clay, and glass products	1963	722	458	18	264	-
		1962	473	255	16	218	-
34	Fabricated metal products	1963	1,002	372	42	630	-
		1962	1,101	476	42	625	-
35	Machinery, except electrical	1963	904	391	30	513	-
		1962	1,045	508	31	537	-
36	Electrical machinery	1963	1,116	179	82	937	-
		1962	1,039	159	76	880	-
	Lawrence-Haverhill, Mass.-N.H., total	1963	6,756	2,930	266	3,826	67
		1962	6,924	3,115	225	3,809	64
22	Textile mill products	1963	1,421	614	50	807	-
		1962	1,519	723	50	796	-
26	Paper and allied products	1963	1,519	1,153	41	366	65
		1962	1,618	1,228	32	390	(S)
30	Rubber and plastics products, n.e.c.	1963	490	187	16	303	(D)
		1962	606	118	20	488	(S)

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	Lawrence-Haverhill, Mass.-N.H.—Continued						
31	Leather and leather products	1963	559	137	19	422	-
		1962	412	110	12	302	-
35	Machinery, except electrical	1963	236	125	5	111	-
		1962	162	92	3	70	-
	Los Angeles-Long Beach, Calif., total	1963	155,639	65,264	8,231	90,375	49
		1962	169,783	72,164	8,937	97,619	31
20	Food and kindred products	1963	12,825	5,988	532	6,837	-
		1962	15,839	7,130	707	8,709	(S)
22	Textile mill products	1963	1,116	583	29	533	(D)
		1962	715	287	26	428	-
23	Apparel and related products	1963	2,883	475	116	2,408	(D)
		1962	1,961	440	78	1,521	-
24	Lumber and wood products	1963	1,102	394	34	708	(D)
		1962	1,019	347	32	672	-
25	Furniture and fixtures	1963	2,251	613	88	1,638	(D)
		1962	2,297	699	89	1,598	-
26	Paper and allied products	1963	6,239	2,987	314	3,252	(D)
		1962	6,951	3,299	368	3,652	27
27	Printing and publishing	1963	2,696	563	145	2,133	(1)
		1962	2,992	575	160	2,417	-
28	Chemicals and allied products	1963	14,963	7,804	822	7,159	(D)
		1962	17,119	9,160	925	7,959	-
29	Petroleum and coal products	1963	25,504	17,154	1,035	8,350	-
		1962	25,049	14,353	1,309	10,696	-
30	Rubber and plastics products, n.e.c.	1963	6,345	1,766	393	4,579	(D)
		1962	6,807	2,077	446	4,730	-
32	Stone, clay, and glass products	1963	11,371	8,092	307	3,279	(D)
		1962	15,329	10,740	433	4,589	-
34	Fabricated metal products	1963	8,840	2,784	377	6,056	1
		1962	11,166	3,965	450	7,201	-
35	Machinery, except electrical	1963	6,980	1,562	377	5,418	(1)
		1962	8,826	2,831	407	5,995	-
36	Electrical machinery	1963	9,947	1,937	697	8,010	(1)
		1962	10,588	2,421	706	8,167	-
37	Transportation equipment	1963	16,314	3,499	1,290	12,815	(D)
		1962	17,016	4,135	1,241	12,881	-
38	Instruments and related products	1963	1,296	288	74	1,008	(D)
		1962	2,189	402	163	1,787	-
39	Miscellaneous manufacturing, including ordnance	1963	7,855	1,608	638	6,247	(D)
		1962	6,654	1,762	501	4,892	-
	Louisville, Ky.-Ind., total	1963	31,511	13,231	1,940	18,280	94
		1962	32,352	13,922	1,875	18,430	89
20	Food and kindred products	1963	4,258	2,350	149	1,908	(D)
		1962	4,349	2,312	152	2,037	(S)
21	Tobacco manufactures	1963	1,424	611	70	813	-
		1962	1,544	689	71	855	-
25	Furniture and fixtures	1963	443	144	17	299	(D)
		1962	416	149	16	267	(S)
26	Paper and allied products	1963	390	175	13	215	-
		1962	368	173	12	195	-
27	Printing and publishing	1963	788	198	57	590	(D)
		1962	661	219	34	442	-
28	Chemicals and allied products	1963	7,977	3,275	663	4,702	(D)
		1962	8,689	3,569	685	5,120	-
32	Stone, clay, and glass products	1963	4,420	2,306	219	2,114	(D)
		1962	3,765	2,044	186	1,721	(S)
34	Fabricated metal products	1963	2,269	1,032	98	1,237	(D)
		1962	2,569	1,413	91	1,156	(S)

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	Louisville, Ky.-Ind.—Continued						
35	Machinery, except electrical	1963	2,437	1,148	126	1,289	(D)
		1962	2,501	1,117	127	1,384	-
	Memphis, Tenn.-Ark., total	1963	18,237	6,952	1,502	11,285	9
		1962	17,772	7,077	1,499	10,695	9
20	Food and kindred products	1963	3,304	1,566	193	1,738	-
		1962	3,478	1,540	228	1,938	-
24	Lumber and wood products	1963	652	239	28	413	9
		1962	528	197	27	331	9
25	Furniture and fixtures	1963	237	51	15	186	-
		1962	258	78	13	180	-
26	Paper and allied products	1963	1,866	781	159	1,085	-
		1962	1,755	709	158	1,046	-
28	Chemicals and allied products	1963	5,514	1,717	627	3,797	-
		1962	5,363	1,821	599	3,542	-
35	Machinery, except electrical	1963	809	485	33	324	-
		1962	766	482	32	284	-
36	Electrical machinery	1963	186	46	15	140	-
		1962	203	50	14	153	-
	Miami, Fla., total	1963	9,181	3,322	367	5,859	1
		1962	8,323	3,380	302	4,943	(S)
20	Food and kindred products	1963	2,001	661	81	1,340	(D)
		1962	1,631	559	62	1,072	(S)
25	Furniture and fixtures	1963	283	55	27	228	(D)
		1962	284	65	9	219	-
27	Printing and publishing	1963	742	78	43	664	(D)
		1962	484	76	26	408	-
34	Fabricated metal products	1963	868	154	34	714	(D)
		1962	974	299	40	675	-
37	Transportation equipment	1963	287	51	10	236	-
		1962	90	18	3	72	-
	Milwaukee, Wis., total	1963	46,496	23,194	1,709	23,302	221
		1962	46,731	24,538	1,632	22,193	202
20	Food and kindred products	1963	6,563	3,969	179	2,594	89
		1962	6,230	3,843	160	2,387	85
22	Textile mill products	1963	231	109	6	122	(D)
		1962	168	76	4	92	(S)
23	Apparel and related products	1963	192	62	7	130	(D)
		1962	487	117	20	370	-
24	Lumber and wood products	1963	205	100	5	105	(D)
		1962	128	70	2	58	-
25	Furniture and fixtures	1963	193	90	4	103	-
		1962	248	133	5	115	-
26	Paper and allied products	1963	1,380	877	27	503	(D)
		1962	1,452	868	36	584	(S)
27	Printing and publishing	1963	1,222	348	52	874	(D)
		1962	1,193	406	50	787	-
31	Leather and leather products	1963	1,329	807	28	522	(D)
		1962	1,282	771	27	511	(S)
33	Primary metal industries	1963	11,234	6,573	365	4,661	(D)
		1962	10,195	6,039	345	4,156	9
34	Fabricated metal products	1963	3,929	1,859	146	2,070	(D)
		1962	4,078	2,100	147	1,978	-
35	Machinery, except electrical	1963	8,744	3,869	367	4,875	(D)
		1962	9,634	4,750	358	4,884	42
36	Electrical machinery	1963	4,864	1,556	273	3,308	(D)
		1962	3,719	1,280	193	2,439	(S)
37	Transportation equipment	1963	2,250	785	124	1,465	(D)
		1962	2,122	825	112	1,297	(S)

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	Milwaukee, Wis.—Continued						
38	Instruments and related products	1963	318	83	12	235	-
		1962	1,171	329	65	842	-
	Minneapolis-St. Paul, Minn., total	1963	34,667	16,587	1,296	18,080	211
		1962	33,121	15,051	1,294	18,070	197
20	Food and kindred products	1963	8,065	4,143	284	3,922	42
		1962	7,458	3,861	264	3,597	42
22	Textile mill products	1963	248	124	9	124	-
		1962	163	91	8	72	-
23	Apparel and related products	1963	256	69	9	187	-
		1962	186	63	7	123	-
24	Lumber and wood products	1963	576	246	21	330	(D)
		1962	836	311	40	525	(S)
25	Furniture and fixtures	1963	253	70	7	183	-
		1962	214	74	6	140	-
26	Paper and allied products	1963	2,312	1,707	35	605	(D)
		1962	2,380	1,699	50	681	(S)
28	Chemicals and allied products	1963	3,559	2,280	118	1,279	(D)
		1962	2,042	833	110	1,209	(S)
29	Petroleum and coal products	1963	1,693	474	131	1,219	(D)
		1962	1,371	380	101	991	(S)
33	Primary metal industries	1963	1,360	751	38	609	-
		1962	1,440	816	35	624	-
34	Fabricated metal products	1963	2,203	880	78	1,323	-
		1962	3,134	1,441	110	1,693	-
35	Machinery, except electrical	1963	3,660	1,364	146	2,296	(D)
		1962	3,327	1,274	127	2,053	(S)
37	Transportation equipment	1963	1,134	540	46	594	(D)
		1962	1,470	726	56	744	(S)
39	Miscellaneous manufacturing, including ordnance	1963	1,308	498	72	810	(D)
		1962	1,388	560	72	828	(S)
	Nashville, Tenn., total	1963	11,563	6,873	591	4,690	14
		1962	9,349	4,413	668	4,936	17
23	Apparel and related products	1963	184	66	8	118	-
		1962	135	75	3	60	-
28	Chemicals and allied products	1963	2,574	1,617	139	957	(D)
		1962	3,219	1,434	255	1,785	(S)
32	Stone, clay, and glass products	1963	4,404	3,190	229	1,214	-
		1962	2,168	980	232	1,188	-
34	Fabricated metal products	1963	485	200	27	285	-
		1962	539	236	23	303	-
36	Electrical machinery	1963	209	98	7	111	-
		1962	503	303	23	200	-
	New Haven, Conn., total	1963	9,708	4,817	361	4,891	(D)
		1962	9,681	4,903	311	4,778	50
20	Food and kindred products	1963	737	383	22	354	-
		1962	505	275	16	230	-
23	Apparel and related products	1963	191	63	6	128	-
		1962	109	(S)	4	79	-
26	Paper and allied products	1963	585	413	16	172	(D)
		1962	1,125	851	18	274	(S)
27	Printing and publishing	1963	266	77	11	189	-
		1962	240	69	5	171	-
28	Chemicals and allied products	1963	144	83	4	61	-
		1962	93	53	(S)	(S)	-
32	Stone, clay, and glass products	1963	533	391	9	142	-
		1962	431	295	9	136	-
33	Primary metal industries	1963	1,890	963	67	927	-
		1962	1,532	775	56	757	-

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	New Haven, Conn.—Continued						
34	Fabricated metal products	1963	1,084	579	36	505	-
		1962	1,221	648	26	573	-
38	Instruments and related products	1963	66	20	2	46	-
		1962	89	22	4	67	-
39	Miscellaneous manufacturing, including ordnance	1963	1,127	738	31	389	(D)
		1962	1,124	652	29	472	(S)
	New Orleans, La., total	1963	26,170	17,549	856	8,621	3,486
		1962	24,850	17,084	729	7,766	4,147
20	Food and kindred products	1963	2,905	1,573	100	1,332	(D)
		1962	2,654	1,548	88	1,106	38
23	Apparel and related products	1963	209	56	8	153	-
		1962	223	98	7	125	-
29	Petroleum and coal products	1963	2,165	1,393	89	772	-
		1962	2,010	1,291	79	719	-
32	Stone, clay, and glass products	1963	3,051	1,827	116	1,224	-
		1962	2,589	1,560	103	1,029	-
35	Machinery, except electrical	1963	120	42	3	78	-
		1962	80	21	(S)	(S)	-
37	Transportation equipment	1963	811	171	55	640	-
		1962	696	176	(S)	520	-
	New York, N.Y., total	1963	143,737	49,241	5,139	94,496	148
		1962	152,468	57,141	5,183	95,327	173
20	Food and kindred products	1963	26,643	11,893	682	14,750	96
		1962	23,668	13,237	596	10,431	112
22	Textile mill products	1963	6,024	2,734	182	3,290	(D)
		1962	7,974	2,974	260	5,000	-
23	Apparel and related products	1963	16,363	3,132	701	13,231	(D)
		1962	16,962	3,481	676	13,481	(S)
25	Furniture and fixtures	1963	2,490	769	80	1,721	(D)
		1962	2,879	932	107	1,947	-
26	Paper and allied products	1963	5,363	2,326	157	3,037	(D)
		1962	6,038	2,650	217	3,388	26
27	Printing and publishing	1963	11,331	2,013	496	9,318	(D)
		1962	12,116	2,056	504	10,060	-
28	Chemicals and allied products	1963	8,582	3,681	280	4,901	(D)
		1962	9,394	4,130	297	5,264	12
30	Rubber and plastics products, n.e.c.	1963	3,994	867	210	3,127	(D)
		1962	5,207	1,328	231	3,879	(S)
31	Leather and leather products	1963	1,536	270	65	1,266	(D)
		1962	1,637	301	55	1,336	-
32	Stone, clay, and glass products	1963	5,173	2,773	148	2,400	(D)
		1962	6,665	3,627	183	3,038	(S)
33	Primary metal industries	1963	8,878	4,339	276	4,539	(D)
		1962	9,422	4,805	252	4,617	9
34	Fabricated metal products	1963	9,604	3,392	322	6,212	(D)
		1962	10,639	3,913	355	6,726	-
35	Machinery, except electrical	1963	5,149	1,602	174	3,547	(D)
		1962	5,612	1,988	182	3,624	(S)
36	Electrical machinery	1963	10,182	2,585	465	7,597	(D)
		1962	10,610	3,344	388	7,266	-
37	Transportation equipment	1963	9,082	3,272	376	5,810	(D)
		1962	8,507	3,191	319	5,316	7
38	Instruments and related products	1963	3,125	715	138	2,410	-
		1962	4,303	1,164	165	3,139	-
39	Miscellaneous manufacturing, including ordnance	1963	8,093	1,977	326	6,116	(D)
		1962	8,279	2,799	334	5,480	-

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	STANDARD METROPOLITAN STATISTICAL AREAS--Continued						
	Newark, N.J., total	1963	64,395	32,175	2,628	32,220	109
		1962	63,142	32,472	2,489	30,670	200
20	Food and kindred products	1963	6,353	3,599	212	2,754	(D)
		1962	5,384	3,169	168	2,215	(S)
22	Textile mill products	1963	967	412	37	555	-
		1962	888	386	28	502	-
23	Apparel and related products	1963	648	214	24	434	(D)
		1962	530	210	15	320	-
25	Furniture and fixtures	1963	355	126	12	229	-
		1962	405	211	12	194	-
26	Paper and allied products	1963	5,186	3,117	198	2,069	(D)
		1962	4,902	3,043	171	1,859	106
27	Printing and publishing	1963	1,046	300	38	746	(D)
		1962	1,144	325	41	819	-
28	Chemicals and allied products	1963	13,476	6,942	619	6,534	66
		1962	12,157	6,933	559	5,224	74
30	Rubber and plastics products, n.e.c.	1963	2,155	616	110	1,539	-
		1962	2,114	721	89	1,393	-
31	Leather and leather products	1963	647	339	17	308	-
		1962	485	222	49	263	-
33	Primary metal industries	1963	4,656	2,295	177	2,361	(D)
		1962	4,288	1,942	170	2,346	-
34	Fabricated metal products	1963	4,367	1,746	160	2,621	-
		1962	4,742	1,991	152	2,751	-
35	Machinery, except electrical	1963	3,655	1,432	151	2,223	(D)
		1962	4,607	2,027	169	2,580	-
36	Electrical machinery	1963	5,440	1,652	299	3,788	(D)
		1962	5,669	1,689	324	3,980	(S)
37	Transportation equipment	1963	2,141	912	110	1,229	-
		1962	2,258	1,015	99	1,243	(S)
38	Instruments and related products	1963	492	174	15	318	-
		1962	770	283	20	487	-
39	Miscellaneous manufacturing, including ordnance	1963	1,387	468	55	919	-
		1962	1,609	564	60	1,045	-
	Paterson-Clifton-Passaic, N.J., total	1963	40,171	19,754	1,487	20,417	118
		1962	34,776	17,510	1,164	17,266	200
20	Food and kindred products	1963	2,961	1,494	107	1,467	(D)
		1962	2,305	1,413	61	892	(S)
22	Textile mill products	1963	5,654	3,599	126	2,055	(D)
		1962	4,362	2,891	77	1,471	(S)
23	Apparel and related products	1963	966	290	37	676	-
		1962	914	283	43	631	(S)
26	Paper and allied products	1963	5,924	3,681	197	2,243	108
		1962	3,632	2,219	112	1,413	190
27	Printing and publishing	1963	942	256	37	686	-
		1962	1,188	371	47	817	-
28	Chemicals and allied products	1963	4,991	2,758	182	2,233	(D)
		1962	4,772	2,832	125	1,940	(S)
30	Rubber and plastics products, n.e.c.	1963	2,587	1,080	122	1,507	-
		1962	2,776	1,194	109	1,582	-
33	Primary metal industries	1963	2,898	1,481	117	1,417	(D)
		1962	2,976	1,431	119	1,545	-
34	Fabricated metal products	1963	2,548	1,017	105	1,531	(D)
		1962	2,253	959	78	1,294	-
35	Machinery, except electrical	1963	1,352	482	43	870	(D)
		1962	1,084	436	31	648	-
36	Electrical machinery	1963	3,142	825	171	2,317	(D)
		1962	1,734	605	81	1,129	-
38	Instruments and related products	1963	464	158	16	306	-
		1962	1,002	318	59	684	-

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	Paterson-Clifton-Passaic, N.J.—Continued						
39	Miscellaneous manufacturing, including ordnance	1963	648	259	20	389	-
		1962	575	231	19	344	-
	Philadelphia, Pa.-N.J., total	1963	170,156	94,128	6,570	76,028	1,562
		1962	174,845	95,558	6,648	79,287	1,525
20	Food and kindred products	1963	14,594	8,373	436	6,221	60
		1962	15,497	8,412	425	7,085	77
21	Tobacco manufactures	1963	173	52	11	121	-
		1962	156	44	9	112	-
22	Textile mill products	1963	6,298	3,343	181	2,955	6
		1962	6,354	3,512	168	2,842	(S)
23	Apparel and related products	1963	2,359	782	102	1,577	(Z)
		1962	3,259	1,243	104	2,016	-
25	Furniture and fixtures	1963	1,054	426	37	628	(D)
		1962	1,182	561	39	621	-
26	Paper and allied products	1963	12,067	8,092	359	3,975	340
		1962	13,401	8,189	471	5,212	297
27	Printing and publishing	1963	4,401	1,658	201	2,743	(D)
		1962	4,447	1,692	197	2,755	(S)
28	Chemicals and allied products	1963	25,256	13,302	1,255	11,954	(D)
		1962	26,012	14,161	1,212	11,851	109
29	Petroleum and coal products	1963	19,293	11,814	863	7,479	396
		1962	19,139	11,869	831	7,270	(S)
30	Rubber and plastics products, n.e.c.	1963	4,957	1,681	285	3,276	(D)
		1962	5,959	2,004	322	3,955	(S)
31	Leather and leather products	1963	466	217	13	249	-
		1962	573	297	13	276	-
32	Stone, clay, and glass products	1963	9,176	6,138	247	3,038	(D)
		1962	10,182	6,775	261	3,407	-
33	Primary metal industries	1963	37,131	25,406	1,028	11,725	(D)
		1962	33,218	22,600	987	10,618	595
34	Fabricated metal products	1963	10,300	4,575	425	5,725	(D)
		1962	11,753	5,005	530	6,748	(S)
35	Machinery, except electrical	1963	7,699	3,161	324	4,538	(D)
		1962	7,619	3,260	316	4,359	9
36	Electrical machinery	1963	6,716	2,372	331	4,344	(D)
		1962	6,948	2,459	320	4,489	52
37	Transportation equipment	1963	4,953	1,440	344	3,513	-
		1962	4,740	1,541	300	3,199	-
38	Instruments and related products	1963	1,360	405	68	955	-
		1962	1,655	546	71	1,109	-
39	Miscellaneous manufacturing, including ordnance	1963	1,334	619	45	715	(D)
		1962	2,120	1,024	59	1,096	-
	Pittsburgh, Pa., total	1963	203,026	139,759	6,128	63,267	1,565
		1962	203,103	143,916	5,893	59,187	1,635
20	Food and kindred products	1963	4,135	2,119	148	2,016	(D)
		1962	3,799	1,869	146	1,930	(S)
27	Printing and publishing	1963	692	197	26	495	-
		1962	474	59	25	415	-
32	Stone, clay, and glass products	1963	14,016	9,912	391	4,104	(D)
		1962	12,860	9,126	358	3,734	(S)
33	Primary metal industries	1963	151,843	111,912	4,211	39,931	1,487
		1962	158,597	119,842	4,070	38,755	1,566
34	Fabricated metal products	1963	7,069	3,480	314	3,589	-
		1962	7,349	3,895	248	3,454	-
35	Machinery, except electrical	1963	4,966	2,144	246	2,822	(D)
		1962	5,075	2,383	255	2,692	(S)
36	Electrical machinery	1963	3,034	1,029	202	2,005	-
		1962	2,793	886	172	1,907	-

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	Pittsburgh, Pa.—Continued						
37	Transportation equipment	1963	1,528	668	81	860	(D)
		1962	1,430	641	73	789	(S)
38	Instruments and related products	1963	406	135	22	271	-
		1962	352	122	20	230	-
39	Miscellaneous manufacturing, including ordnance	1963	440	175	16	265	-
		1962	375	170	14	205	-
	Portland, Oreg.-Wash., total	1963	29,287	13,361	4,148	15,926	144
		1962	29,868	13,630	4,725	16,238	216
20	Food and kindred products	1963	2,465	1,466	82	999	-
		1962	2,590	1,586	95	1,004	-
24	Lumber and wood products	1963	2,287	1,228	94	1,059	(D)
		1962	2,608	1,440	116	1,168	(S)
25	Furniture and fixtures	1963	189	69	9	120	-
		1962	249	72	10	177	-
26	Paper and allied products	1963	8,416	5,360	875	3,056	(D)
		1962	9,323	5,745	834	3,578	(S)
28	Chemicals and allied products	1963	2,056	825	70	1,231	-
		1962	1,674	700	371	974	-
29	Petroleum and coal products	1963	376	314	5	62	-
		1962	400	336	7	64	-
32	Stone, clay, and glass products	1963	2,538	1,724	221	814	-
		1962	1,678	1,352	286	326	-
33	Primary metal industries	1963	7,756	1,181	2,614	6,575	-
		1962	8,011	952	2,827	7,059	-
34	Fabricated metal products	1963	745	324	32	421	-
		1962	1,030	484	38	546	-
37	Transportation equipment	1963	418	135	28	283	-
		1962	384	124	25	260	-
	Providence, R.I.-Mass., total	1963	27,494	12,058	1,000	15,436	62
		1962	32,186	15,204	1,056	16,982	59
20	Food and kindred products	1963	1,599	949	34	659	(D)
		1962	1,626	935	39	691	(S)
22	Textile mill products	1963	6,324	2,828	216	3,496	16
		1962	7,933	3,372	308	4,561	17
23	Apparel and related products	1963	175	68	5	107	-
		1962	175	62	5	113	-
27	Printing and publishing	1963	464	105	20	359	(D)
		1962	154	38	7	116	-
30	Rubber and plastics products, n.e.c.	1963	1,888	606	86	1,282	(D)
		1962	2,962	1,112	125	1,850	-
33	Primary metal industries	1963	4,203	1,906	175	2,297	(D)
		1962	4,244	1,989	149	2,255	11
34	Fabricated metal products	1963	1,926	749	69	1,177	(D)
		1962	1,880	722	57	1,158	-
35	Machinery, except electrical	1963	1,331	496	50	835	(D)
		1962	1,704	646	65	1,058	(S)
36	Electrical machinery	1963	1,126	295	65	831	(D)
		1962	659	170	31	489	-
38	Instruments and related products	1963	667	150	32	517	-
		1962	583	208	20	375	-
39	Miscellaneous manufacturing, including ordnance	1963	2,414	805	82	1,609	(D)
		1962	2,645	941	89	1,704	-
	Reading, Pa., total	1963	14,099	6,510	602	7,589	(D)
		1962	13,406	6,595	564	6,811	2
20	Food and kindred products	1963	1,004	526	30	478	(D)
		1962	856	403	27	453	-
22	Textile mill products	1963	1,070	531	30	539	(D)
		1962	989	508	28	481	-

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	Reading, Pa.—Continued						
23	Apparel and related products	1963	210	79	6	131	-
		1962	115	42	4	73	-
26	Paper and allied products	1963	814	418	34	396	-
		1962	668	348	26	320	-
28	Chemicals and allied products	1963	194	116	6	78	-
		1962	269	163	6	106	-
31	Leather and leather products	1963	143	53	4	90	-
		1962	157	89	3	68	-
32	Stone, clay, and glass products	1963	1,582	940	59	642	-
		1962	1,545	912	55	633	-
33	Primary metal industries	1963	4,716	2,252	220	2,464	-
		1962	4,351	2,363	171	1,988	(S)
35	Machinery, except electrical	1963	783	240	44	543	(D)
		1962	856	277	46	579	-
36	Electrical machinery	1963	1,509	496	95	1,013	(D)
		1962	1,591	586	118	1,005	-
37	Transportation equipment	1963	744	320	36	424	-
		1962	700	278	35	422	-
	Richmond, Va., total	1963	13,466	8,063	443	5,403	155
		1962	13,337	7,795	464	5,542	178
21	Tobacco manufactures	1963	1,769	781	72	988	(D)
		1962	1,742	798	67	944	(S)
23	Apparel and related products	1963	178	54	6	124	-
		1962	130	48	4	82	-
26	Paper and allied products	1963	1,852	1,216	50	636	(D)
		1962	1,855	1,220	41	635	(S)
28	Chemicals and allied products	1963	5,045	3,759	150	1,286	(D)
		1962	5,054	3,542	185	1,512	(S)
	Rochester, N.Y., total	1963	25,371	14,008	790	11,363	609
		1962	21,214	11,809	580	9,405	375
20	Food and kindred products	1963	4,319	2,514	123	1,805	-
		1962	3,020	1,538	94	1,482	-
22	Textile mill products	1963	128	41	5	87	-
		1962	190	(S)	7	124	-
23	Apparel and related products	1963	392	231	7	161	-
		1962	376	204	8	172	-
26	Paper and allied products	1963	996	453	39	543	(D)
		1962	445	280	8	165	(S)
27	Printing and publishing	1963	629	184	23	445	(D)
		1962	629	215	23	414	-
34	Fabricated metal products	1963	958	414	34	544	-
		1962	843	378	25	465	-
35	Machinery, except electrical	1963	2,937	1,083	121	1,854	(D)
		1962	1,620	739	48	881	(S)
36	Electrical machinery	1963	2,108	810	84	1,298	(D)
		1962	2,356	881	78	1,475	-
38	Instruments and related products	1963	8,383	5,528	240	2,855	(D)
		1962	8,135	5,422	180	2,713	(S)
39	Miscellaneous manufacturing, including ordnance	1963	443	228	11	215	-
		1962	339	201	7	138	-
	St. Louis, Mo.-Ill., total	1963	90,968	48,697	3,905	42,271	792
		1962	86,967	47,993	3,530	38,974	841
20	Food and kindred products	1963	7,963	4,215	290	3,748	143
		1962	7,906	4,336	261	3,570	142
26	Paper and allied products	1963	2,789	1,887	64	902	(D)
		1962	2,515	1,714	52	801	154
27	Printing and publishing	1963	1,459	364	72	1,095	(D)
		1962	1,967	358	83	1,609	

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	St. Louis, Mo.-Ill.—Continued						
28	Chemicals and allied products	1963	14,279	7,826	680	6,453	(D)
		1962	12,927	7,815	525	5,112	(S)
29	Petroleum and coal products	1963	7,141	3,172	462	3,969	(D)
		1962	6,556	3,156	416	3,400	(S)
32	Stone, clay, and glass products	1963	11,763	8,058	370	3,705	(D)
		1962	11,805	8,129	355	3,676	(S)
33	Primary metal industries	1963	23,814	14,788	955	9,026	(D)
		1962	22,441	13,758	882	8,683	(S)
34	Fabricated metal products	1963	3,742	1,559	144	2,183	-
		1962	3,528	1,656	131	1,872	-
35	Machinery, except electrical	1963	2,816	946	126	1,870	(D)
		1962	2,720	1,087	112	1,633	(S)
36	Electrical machinery	1963	2,841	1,166	98	1,675	-
		1962	1,860	640	92	1,220	-
37	Transportation equipment	1963	6,986	2,478	439	4,508	-
		1962	7,077	2,786	403	4,291	-
39	Miscellaneous manufacturing, including ordnance	1963	1,399	774	47	625	-
		1962	1,374	925	30	449	-
	San Diego, Calif., total	1963	6,983	1,905	394	5,078	(D)
		1962	6,957	1,786	401	5,171	-
20	Food and kindred products	1963	868	328	34	540	-
		1962	579	228	21	351	-
37	Transportation equipment	1963	2,088	357	152	1,731	(D)
		1962	3,757	632	276	3,125	-
	San Francisco-Oakland, Calif., total	1963	73,768	37,111	3,531	36,657	493
		1962	73,512	37,353	3,564	36,159	470
20	Food and kindred products	1963	10,639	6,385	305	4,254	(D)
		1962	11,229	6,968	319	4,261	51
23	Apparel and related products	1963	507	250	16	257	-
		1962	1,219	119	43	1,100	-
24	Lumber and wood products	1963	422	187	14	235	-
		1962	323	76	16	247	-
25	Furniture and fixtures	1963	409	120	16	289	(D)
		1962	494	124	18	370	-
26	Paper and allied products	1963	5,914	3,727	212	2,187	(D)
		1962	6,297	3,964	218	2,333	253
27	Printing and publishing	1963	1,462	292	77	1,170	-
		1962	1,163	227	56	936	-
28	Chemicals and allied products	1963	12,173	4,449	911	7,724	(D)
		1962	12,612	5,316	916	7,296	(S)
29	Petroleum and coal products	1963	13,733	7,659	780	6,074	(D)
		1962	10,175	5,029	809	5,146	161
30	Rubber and plastics products, n.e.c.	1963	819	217	40	602	-
		1962	898	266	40	632	-
32	Stone, clay, and glass products	1963	6,498	4,542	190	1,956	(D)
		1962	8,093	5,633	238	2,460	(S)
33	Primary metal industries	1963	10,374	5,810	412	4,564	-
		1962	11,287	6,317	430	4,970	-
34	Fabricated metal products	1963	4,179	1,573	188	2,606	-
		1962	3,724	1,464	150	2,260	-
35	Machinery, except electrical	1963	1,335	330	63	1,005	(D)
		1962	1,442	371	68	1,071	-
36	Electrical machinery	1963	2,155	620	118	1,535	-
		1962	1,697	462	94	1,235	-
37	Transportation equipment	1963	2,284	661	153	1,623	-
		1962	2,042	665	122	1,377	-
39	Miscellaneous manufacturing, including ordnance	1963	235	80	8	155	(D)
		1962	217	144	3	73	(S)

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold (million kw.-hrs.)
					Quantity (million kw.-hrs.)	Cost ($1,000)	
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	San Jose, Calif., total	1963	19,572	8,884	1,000	10,688	(D)
		1962	18,038	8,595	902	9,443	-
20	Food and kindred products	1963	3,121	1,761	96	1,360	(D)
		1962	3,264	1,771	106	1,493	-
26	Paper and allied products	1963	1,162	492	69	670	-
		1962	951	482	46	469	-
34	Fabricated metal products	1963	384	131	14	253	(D)
		1962	341	98	14	243	-
35	Machinery, except electrical	1963	1,361	308	101	1,053	(D)
		1962	1,216	241	82	975	-
36	Electrical machinery	1963	2,482	613	148	1,869	-
		1962	1,791	585	119	1,206	-
	Seattle-Everett, Wash., total	1963	21,960	11,789	1,381	10,171	161
		1962	22,505	13,148	1,368	9,357	164
20	Food and kindred products	1963	2,361	1,258	75	1,103	(D)
		1962	2,075	1,101	101	974	-
23	Apparel and related products	1963	104	40	3	64	-
		1962	148	66	5	82	-
24	Lumber and wood products	1963	1,879	902	88	977	(D)
		1962	1,621	800	89	821	63
26	Paper and allied products	1963	4,837	3,343	338	1,494	(D)
		1962	4,578	3,169	(S)	(S)	(S)
27	Printing and publishing	1963	318	95	15	223	-
		1962	226	59	14	167	-
28	Chemicals and allied products	1963	375	165	18	210	-
		1962	326	151	17	175	-
33	Primary metal industries	1963	1,982	941	185	1,041	-
		1962	1,489	796	134	693	-
34	Fabricated metal products	1963	1,152	503	68	649	-
		1962	1,250	631	60	619	-
37	Transportation equipment	1963	2,642	1,155	194	1,487	(D)
		1962	4,953	2,031	451	2,922	-
	Springfield-Chicopee-Holyoke, Mass., total	1963	18,790	9,026	638	9,764	63
		1962	18,140	8,956	626	9,184	67
22	Textile mill products	1963	1,101	598	30	503	(D)
		1962	1,283	634	42	649	(S)
26	Paper and allied products	1963	4,200	2,125	136	2,075	59
		1962	3,981	2,052	119	1,929	62
27	Printing and publishing	1963	573	206	18	367	-
		1962	292	91	13	201	-
28	Chemicals and allied products	1963	2,966	1,711	111	1,255	-
		1962	2,903	1,660	112	1,243	-
30	Rubber and plastics products, n.e.c.	1963	1,297	465	56	832	-
		1962	1,525	528	78	997	-
34	Fabricated metal products	1963	1,093	524	35	569	(D)
		1962	1,418	734	39	684	(S)
36	Electrical machinery	1963	384	149	17	235	-
		1962	552	191	22	361	-
39	Miscellaneous manufacturing, including ordnance	1963	1,023	374	43	649	(D)
		1962	975	433	35	542	-
	Syracuse, N.Y., total	1963	23,129	14,553	764	8,579	420
		1962	23,057	15,078	737	7,979	393
20	Food and kindred products	1963	1,772	868	74	904	(D)
		1962	2,449	1,418	95	1,031	(S)
22	Textile mill products	1963	241	200	2	41	(D)
		1962	211	174	2	37	(S)
26	Paper and allied products	1963	1,946	938	98	1,008	(D)
		1962	2,387	1,112	126	1,275	(S)

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	Syracuse, N.Y.—Continued						
27	Printing and publishing	1963	218	72	7	146	-
		1962	65	20	3	45	-
28	Chemicals and allied products	1963	7,056	6,461	66	595	(D)
		1962	7,529	6,919	70	610	(S)
32	Stone, clay, and glass products	1963	1,043	788	22	255	-
		1962	885	661	23	224	(S)
33	Primary metal industries	1963	3,366	2,073	135	1,293	-
		1962	2,839	1,848	92	991	-
34	Fabricated metal products	1963	1,100	503	52	597	-
		1962	770	358	24	412	-
35	Machinery, except electrical	1963	2,037	820	109	1,217	-
		1962	1,919	799	102	1,120	-
36	Electrical machinery	1963	2,941	1,072	149	1,869	-
		1962	2,514	1,020	133	1,494	-
37	Transportation equipment	1963	707	371	33	336	-
		1962	1,033	501	55	532	-
39	Miscellaneous manufacturing, including ordnance	1963	158	98	4	60	-
		1962	128	78	3	50	-
	Toledo, Ohio-Mich., total	1963	33,941	18,511	1,369	15,430	258
		1962	20,912	10,276	929	10,636	94
20	Food and kindred products	1963	2,878	1,272	69	1,606	(D)
		1962	1,664	547	80	1,117	-
26	Paper and allied products	1963	2,921	2,179	55	742	(D)
		1962	213	102	6	111	-
28	Chemicals and allied products	1963	1,029	370	53	606	(D)
		1962	922	358	47	564	-
29	Petroleum and coal products	1963	5,558	2,804	338	2,754	-
		1962	5,454	2,686	327	2,768	-
32	Stone, clay, and glass products	1963	9,497	6,648	305	2,849	(D)
		1962	2,517	1,725	81	792	(S)
33	Primary metal industries	1963	3,065	1,775	114	1,290	(D)
		1962	2,492	1,525	75	967	(S)
34	Fabricated metal products	1963	1,767	845	56	922	-
		1962	1,732	815	52	917	-
35	Machinery, except electrical	1963	1,143	463	44	680	-
		1962	1,150	434	41	716	-
37	Transportation equipment	1963	4,211	1,403	260	2,808	-
		1962	3,073	1,334	162	1,739	-
	Utica-Rome, N.Y., total	1963	9,406	4,426	482	4,980	45
		1962	9,277	4,487	418	4,790	39
20	Food and kindred products	1963	834	475	24	359	(D)
		1962	782	421	23	361	-
22	Textile mill products	1963	219	90	11	129	-
		1962	335	175	12	160	-
25	Furniture and fixtures	1963	174	72	7	102	(D)
		1962	160	77	6	83	(S)
26	Paper and allied products	1963	1,267	617	71	650	(D)
		1962	612	324	17	288	-
28	Chemicals and allied products	1963	682	557	12	125	(D)
		1962	712	593	12	119	(S)
33	Primary metal industries	1963	2,447	907	169	1,540	-
		1962	2,838	1,240	154	1,598	-
34	Fabricated metal products	1963	778	443	25	335	-
		1962	922	514	31	408	-
35	Machinery, except electrical	1963	712	355	37	357	-
		1962	883	432	36	451	-
39	Miscellaneous manufacturing, including ordnance	1963	694	314	39	380	(D)
		1962	614	293	33	321	(S)

See footnotes at end of table.

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	Washington, D.C.-Md.-Va., total	1963	7,829	3,478	267	4,351	(D)
		1962	6,096	2,637	234	3,459	(S)
20	Food and kindred products	1963	1,061	916	66	1,045	(D)
		1962	1,649	821	56	828	(S)
27	Printing and publishing	1963	1,573	439	69	1,134	(D))
		1962	1,502	384	71	1,118	-
	Wichita, Kans., total	1963	12,275	4,373	846	7,902	(D)
		1962	8,485	2,247	625	6,238	-
20	Food and kindred products	1963	1,302	389	70	913	-
		1962	1,335	422	70	913	-
27	Printing and publishing	1963	126	17	6	109	-
		1962	43	5	3	38	-
34	Fabricated metal products	1963	513	145	29	368	-
		1962	450	135	20	315	-
37	Transportation equipment	1963	3,191	605	224	2,586	-
		1962	3,198	612	213	2,586	-
	Wilmington, Del.-N.J.-Md., total	1963	35,036	22,146	1,343	12,890	24
		1962	30,455	19,013	1,131	11,442	47
20	Food and kindred products	1963	717	296	25	421	(D)
		1962	774	317	24	457	-
22	Textile mill products	1963	768	574	15	194	(D)
		1962	866	609	17	257	(S)
30	Rubber and plastics products, n.e.c	1963	813	315	36	498	-
		1962	701	321	32	380	-
32	Stone, clay, and glass products	1963	2,424	1,576	78	848	-
		1962	2,077	1,291	75	786	-
34	Fabricated metal products	1963	438	195	16	243	(D)
		1962	449	202	20	247	-
	Worcester, Mass., total	1963	13,284	6,399	419	6,885	52
		1962	13,094	6,697	386	6,397	56
20	Food and kindred products	1963	590	258	21	332	(D)
		1962	484	244	13	240	-
26	Paper and allied products	1963	203	96	5	107	-
		1962	303	150	8	153	-
27	Printing and publishing	1963	162	35	9	127	-
		1962	81	21	3	60	-
31	Leather and leather products	1963	165	41	6	124	-
		1962	221	80	7	141	-
33	Primary metal industries	1963	4,970	2,639	160	2,331	-
		1962	5,193	2,888	152	2,305	-
34	Fabricated metal products	1963	1,215	493	38	722	-
		1962	1,323	652	35	671	-
35	Machinery, except electrical	1963	1,947	921	50	1,026	(D)
		1962	1,698	915	46	783	(S)
39	Miscellaneous manufacturing, including ordnance	1963	183	74	5	109	-
		1962	174	67	5	107	-
	York, Pa., total	1963	13,317	7,117	461	6,200	142
		1962	13,102	7,351	426	5,751	138
21	Tobacco manufactures	1963	191	97	5	94	-
		1962	78	23	3	55	-
22	Textile mill products	1963	674	272	31	402	-
		1962	609	259	26	350	-
25	Furniture and fixtures	1963	571	253	19	318	-
		1962	457	185	18	272	-
26	Paper and allied products	1963	2,982	1,895	94	1,087	(D)
		1962	2,902	1,821	90	1,081	(S)
27	Printing and publishing	1963	206	51	10	155	-
		1962	135	30	8	105	-

See footnotes at end of table

TABLE 4. Consumption for Heat and Power, for SMSA's With 40,000 or More Employees, by Major Industry Groups: 1962 and 1963--Continued

Code	Standard consolidated area, standard metropolitan statistical area, and industry group	Year	Total cost of purchased fuels and electric energy ($1,000)	Cost of purchased fuels ($1,000)	Electric energy		
					Purchased		Generated less sold
					Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued						
	York, Pa.—Continued						
31	Leather and leather products	1963	210	55	8	155	-
		1962	90	33	3	57	-
33	Primary metal industries	1963	727	331	28	396	-
		1962	734	296	32	438	-
34	Fabricated metal products	1963	597	225	21	372	-
		1962	631	259	25	372	-
35	Machinery, except electrical	1963	1,483	513	78	970	-
		1962	1,584	584	82	1,000	-
36	Electrical machinery	1963	226	70	11	156	-
		1962	184	65	8	119	-
	Youngstown-Warren, Ohio, total	1963	59,070	38,567	2,154	20,503	284
		1962	56,130	38,525	1,811	17,605	307
27	Printing and publishing	1963	99	26	4	73	-
		1962	85	24	4	61	-
30	Rubber and plastics products, n.e.c.	1963	328	138	15	190	(D)
		1962	345	193	12	152	(S)
33	Primary metal industries	1963	48,034	33,866	1,644	14,168	279
		1962	47,267	33,885	1,461	13,382	299
34	Fabricated metal products	1963	1,975	905	67	1,070	-
		1962	1,676	834	62	842	-
35	Machinery, except electrical	1963	1,107	425	49	682	-
		1962	899	382	38	517	-
36	Electrical machinery	1963	724	290	35	434	(D)
		1962	917	409	40	508	(S)
37	Transportation equipment	1963	2,599	868	172	1,731	-
		1962	1,367	582	74	785	-

Note: Figures may not add to totals due to independent rounding.

- Represents zero.
(D) Withheld to avoid disclosing figures for individual companies.
(NA) Not available.
(S) Withheld because the estimate did not meet publication standards.
(Z) Less than 500 thousand kilowatt hours.

TABLE 5. Consumption in Manufacturing

	Kind of fuel and purpose or use	1962			1958		
		Purchased		Quantity made and used in the same establishment	Purchased		Quantity made and used in the same establishment
		Quantity	Cost ($1,000)		Quantity	Cost ($1,000)	
1	Bituminous coal, lignite, and anthracite, total..1,000 short tons..	160,908	1,316,311	-	159,601	1,379,591	-
2	Heat and power.....do....	89,438	639,518	-	81,784	638,206	-
3	Raw material.....do....	71,470	676,793	-	77,817	741,385	-
4	Coke and breeze, total[2].....do....	18,869	326,470	38,194	14,850	292,687	36,221
5	Heat and power[2].....do....	17,747	304,834	38,194	13,585	271,007	36,221
6	Raw material.....do....	1,122	21,636	-	1,265	21,680	-
7	Fuel oil (distillate and residual), petroleum coke, acid sludge, tar, etc., total.....1,000 barrels of 42 gallons..	203,867	647,511	[3]75,409	172,349	540,480	[4]60,562
8	Heat and power.....do....	[7]195,615	[7]623,341	75,409	166,301	522,704	60,562
9	Raw material.....do....	8,252	24,170	-	6,048	17,776	-
10	Gas (natural, manufactured, still, blast furnace, and coke oven), total[2].....million cu. ft..	4,608,178	1,519,896	5,032,993	3,477,449	956,013	5,515,488
11	Heat and power[2].....do....	[8]4,308,106	[8]1,455,928	5,032,993	3,112,212	900,901	5,515,488
12	Natural gas used as raw material.....do....	300,072	63,968	-	365,237	55,112	-
13	Other fuels (gasoline, LPG, wood, and purchased steam), total.....	(X)	11,184,028	(X)	(X)	9,420,374	(X)
14	Heat and power.....	(X)	337,099	(X)	(X)	147,873	(X)
	Raw material:						
15	Crude petroleum.....1,000 barrels of 42 gallons..	3,197,662	10,437,864	(X)	2,849,525	9,180,035	(X)
16	Liquefied petroleum gas[10].....do....	188,740	409,065	(X)	33,021	92,466	(X)
17	Fuels, not specified by kind.....	(X)	-	(X)	(X)	355,553	(X)
18	Electric energy.....million kw.-hrs..	[11]313,961	[11]2,823,337	74,261	252,909	2,230,805	66,850
19	Total energy used for heat and power[12].million kw.-hrs.equivalent..	2,875,291	6,184,057	861,342	2,417,309	5,067,049	788,451

Note: Data for 1954, 1958, and 1962 include establishments located in Alaska and Hawaii. Data for earlier years exclude Alaska and Hawaii.
- Entry represents zero.
NA Not available.
X Not applicable.

[1]Data represent both (a) purchased fuels and electric energy; and (b) fuels and electric energy made and used in the same establishment.

[2]In 1954 and prior years, separate establishment reports were submitted for blast furnaces and for facilities producing coke, even when such operations were conducted in a complex including steel making and rolling mills at the same location. The quantities of coke produced were then reported as purchases (see text). For 1954, it is estimated that 38,539 thousand short tons of coke reported as purchased were produced and consumed in such associated coke, blast furnace, and steel making establishments. The comparable figures for 1947 and 1939 are 44,853 thousand tons and 24,557 thousand tons, respectively.

The 1954 quantity of coke purchased, comparable with 1958, was estimated as 15,748 thousand short tons, valued at $250,424 thousand. The 1954 value of such interplant transfers for coke, coke oven gas, coal tar, and blast furnace gas, which are excluded for later years, was about $599 million.

[3]Includes 34,582 thousand barrels of residual oils, 33,304 thousand barrels of petroleum coke, and 7,523 thousand barrels of acid sludge, tar, etc.

[4]Includes 43,147 thousand barrels of residual oils and 17,415 thousand barrels of petroleum coke, acid sludge, tar, etc. Of this total, 8,024 thousand barrels were considered "Other Fuels" for computing "Total Energy Used."

[5]Includes 48,521 thousand barrels of residual oils and 11,582 thousand barrels of petroleum coke, acid sludge, tar, etc. Of this total, 7,745 thousand barrels were considered "Other Fuels" for computing "Total Energy Used."

Industries: 1962 and Earlier Years

1954			[1]1947		[1]1939		[1]1929		[1]1919		[1]1909		
Purchased		Quantity made and used in the same establishment											
Quantity	Cost ($1,000)		Quantity	Cost ($1,000)	Quantity	Cost ($1,000)	Quantity	Cost ($1,000)	Quantity	Cost ($1,000)	Quantity	Cost ($1,000)	
176,899	1,438,352	-	218,922	1,399,056	143,350	(NA)	206,232	730,621	202,576	(NA)	165,593	(NA)	1
91,458	676,811	-	110,869	692,827	80,161	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	2
85,441	761,541	-	108,053	706,229	63,189	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	3
56,232	894,521	([2])	68,722	745,810	36,745	(NA)	51,406	234,675	41,785	(NA)	38,530	(NA)	4
54,372	867,893	([2])	66,171	729,403	35,001	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	5
1,860	26,628	-	2,551	16,407	1,744	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	6
190,415	592,204	[5]60,103	[6]215,559	[6]560,573	133,404	(NA)	132,221	177,008	69,639	(NA)	19,727	(NA)	7
186,455	581,201	60,103	215,559	560,573	97,362	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	8
3,960	11,003	-	-	-	36,042	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	9
6,252,999	881,037	3,062,075	5,350,883	586,040	2,808,207	(NA)	1,174,191	224,005	565,797	(NA)	308,877	(NA)	10
5,914,898	847,303	3,062,075	4,866,001	568,730	1,840,406	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	11
338,101	33,734	-	484,882	17,310	967,801	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	12
(X)	7,913,420	(X)	(X)	(X)	(X)	(X)	(X)	22,242	(X)	(X)	(X)	(X)	13
(X)	201,979	(X)	(X)	96,457	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	14
2,499,295	7,638,890	(X)	[9]1,786,082	[9]3,833,743	1,250,256	(NA)	1,039,922	1,614,875	365,272	867,646	120,775	152,307	15
26,567	72,551	(X)	7,786	(NA)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	16
(X)	28,669	(X)	(X)	-	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	17
187,148	1,727,806	60,639	102,822	954,717	44,847	462,310	36,427	461,097	(NA)	(NA)	(NA)	(NA)	18
2,220,212	4,931,662	730,906	[13]2,605,776	3,602,707	[13]1,584,066	(NA)	1,815,642	1,849,648	1,608,637	(NA)	1,233,058	(NA)	19

[6]Includes 40,330 thousand barrels of residual oils, valued at $77,118 thousand and 8,282 thousand barrels of acid sludge, tar, etc., valued at $8,510 thousand made and consumed in the same establishment.

[7]Includes 150,886 thousand barrels of residual oil with a reported cost of $432,424 thousand. The remainder is distillate oil Similar figures for earlier years are not available.

[8]Includes the following types of gas: blast furnace gas, 74,166 million cubic feet with a reported cost of $5,025 thousand; coke oven gas, 114,145 million cubic feet, with a reported cost of $23,741 thousand; natural, manufactured or mixed gas, 4,105,009 million cubic feet, with a reported cost of $1,422,785 thousand; the remainder was other gas. Similar figures for earlier years are not available.

[9]Represents consumption of domestic crude petroleum only. Total consumption, including imported crude petroleum, amounted to 1,884,052 thousand barrels; a corresponding cost figure is not available for total crude petroleum consumed.

[10]For 1962, represents liquefied petroleum gas from all sources purchased by the Basic Chemicals industries (SIC 281) and the Petroleum Refining industry (SIC 2911). For 1958, 1954, and 1947, represents liquefied petroleum gas (from natural gasoline plants only) purchased by the Petroleum Refining industry.

[11]Includes 2,507 million kilowatt-hours valued at $24,781 thousand purchased by manufacturing establishments and then resold or transferred. Similar figures for earlier years are not available.

[12]Represents purchased electric energy and the kilowatt-hours equivalent of all fuels used for heat and power. For factors used to convert fuels to this international unit of energy, see text. When possible, separate figures are shown for purchases and for quantities produced and used.

[13]For 1947, includes 1,915,926 million kilowatt-hours equivalent for purchased fuels and electric energy. The corresponding figure for 1939 is 1,158,506 million kilowatt-hours equivalent.

TABLE 6. Consumption for Heat and Power, by

Code	Industry group and year	Purchased fuels and electric energy		Purchased fuels				
					Bituminous coal, lignite, and anthracite		Coke and breeze	
		Kilowatt-hours equivalent[1]	Total cost	Total cost	Quantity	Cost	Quantity	Cost
		(millions)	($1,000)	($1,000)	(1,000 short tons)	($1,000)	(1,000 short tons)	($1,000)
	All industries, total....1962...	[1]2,875,291	6,184,057	3,360,720	89,438	639,518	17,747	304,834
	1958...	[1]2,417,309	5,067,049	2,836,244	81,784	638,206	13,585	271,007
	1954[3]..	[1]2,220,212	4,931,662	3,203,856	91,458	676,811	54,372	867,893
20	Food and kindred products....1962...	235,200	595,281	325,336	8,752	64,154	70	1,865
	1958...	224,545	518,207	293,899	8,663	66,865	65	1,617
	1954...	236,020	419,075	250,430	11,179	86,382	99	1,866
21	Tobacco products....1962...	3,971	10,368	5,150	297	2,464	-	-
	1958...	3,878	9,258	4,881	313	2,814	-	-
	1954...	3,629	7,860	4,362	345	2,927	2	33
22	Textile mill products....1962...	73,253	221,529	87,107	3,051	24,661	(S)	(S)
	1958...	66,593	201,175	84,036	3,066	27,250	-	-
	1954...	73,763	190,460	77,620	4,822	37,357	23	332
23	Apparel and related products....1962...	9,737	62,714	19,298	169	1,494	(S)	(S)
	1958...	9,959	51,563	15,784	-	-	-	-
	1954...	7,870	37,425	13,374	16	183	-	-
24	Lumber and wood products....1962...	34,489	151,920	87,615	324	2,764	2	22
	1958...	26,443	119,828	70,313	256	2,695	-	-
	1954...	29,790	99,232	57,727	847	8,022	9	146
25	Furniture and fixtures....1962...	10,668	45,047	17,235	474	3,678	(S)	(S)
	1958...	10,032	34,247	14,918	356	3,528	-	-
	1954...	9,513	30,585	11,755	658	5,769	3	64
26	Paper and allied products....1962...	272,175	458,755	302,885	15,145	123,785	102	877
	1958...	236,344	382,727	266,444	14,465	123,526	-	-
	1954...	190,046	311,488	220,036	12,572	104,088	12	223
27	Printing and publishing....1962...	14,485	91,861	24,685	126	1,271	-	-
	1958...	11,996	73,503	21,783	-	-	-	-
	1954...	8,523	52,285	16,135	-	-	-	-
28	Chemicals and allied products....1962...	550,122	951,252	451,627	22,600	147,252	383	5,262
	1958...	451,882	788,152	359,504	19,438	138,973	-	-
	1954...	374,138	621,310	335,295	21,009	142,247	27	422
29	Petroleum and coal products....1962...	335,460	365,145	262,974	934	5,163	5	104
	1958...	273,041	262,272	184,853	1,200	6,738	-	-
	1954...	189,470	150,576	102,833	942	5,603	10	84
30	Rubber and plastics products, n.e.c.1962...	41,873	126,961	45,478	2,339	15,380	2	69
	1958...	35,930	97,851	39,331	2,426	16,545	-	-
	1954...	33,021	76,768	31,122	2,470	16,439	1	21
31	Leather and leather products....1962...	9,260	30,581	14,646	404	3,582	(S)	(S)
	1958...	9,403	28,594	13,861	467	3,649	-	-
	1954...	8,563	24,011	12,152	610	6,547	1	16
32	Stone, clay and glass products....1962...	309,498	555,671	388,355	11,487	83,248	156	3,166
	1958...	276,965	468,974	338,111	11,786	94,382	166	3,547
	1954...	265,291	369,859	274,743	13,634	95,803	191	3,439
33	Primary metal industries....1962...	674,834	1,379,781	879,794	13,511	84,476	16,515	277,889
	1958...	518,458	1,113,287	743,510	11,325	83,536	12,999	254,707
	1954...	533,471	1,794,374	1,438,338	10,370	70,196	53,275	844,182
34	Fabricated metal products....1962...	62,491	247,691	109,879	1,045	8,026	125	4,017
	1958...	55,562	200,601	91,812	1,020	8,710	149	4,415
	1954...	52,679	167,176	78,524	1,730	14,233	239	5,651
35	Machinery, except electrical....1962...	69,018	254,685	106,862	2,283	17,895	185	5,726
	1958...	61,606	210,506	95,266	1,616	13,840	121	3,978
	1954[4]..	98,999	307,937	141,549	4,659	36,527	271	6,621
36	Electrical machinery[5]....1962...	50,780	207,808	70,151	1,463	10,669	33	829
	1958...	41,170	153,610	58,482	968	8,405	6	216
37	Transportation equipment....1962...	86,870	306,038	112,939	3,863	29,824	163	4,840
	1958...	77,758	253,432	100,228	3,840	31,416	78	2,527
	1954...	73,647	217,889	94,389	4,217	32,461	198	4,542
38	Instruments and related products....1962...	11,448	43,082	17,783	571	5,001	(S)	(S)
	1958...	9,367	31,635	14,424	432	4,091	-	-
	1954...	7,989	21,796	10,392	533	4,816	2	67
39 19	Miscellaneous manufacturing, including ordnance....1962...	19,659	77,887	30,921	600	4,731	3	96
	1958...	16,377	62,627	24,804	147	1,243	-	-
	1954...	21,739	64,622	28,602	844	7,204	8	156

Note: Detail may not add to totals because of independent rounding. - Entry represents zero. NA Not available. S Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); cost of fuel less than $50 thousand; quantity of electric energy less than 5 million kw.-hrs.; to avoid disclosing figures of individual companies; or on the basis of a general consistency review. (Unpublished estimates in the tables in this report, including those which can be derived by subtraction, are generally unreliable.) X Not applicable. Z Less than one-half of the unit of measure indicated. [1]See footnote 12, table 2. The total figures for "All industries" for all years include Alaska and Hawaii. However, figures for Alaska and Hawaii are distributed by major group only for 1962 and 1958. The total kilowatt-hours equivalent of energy used in Alaska and

Major Industry Groups: 1962, 1958, and 1954

Purchased fuels--Continued						Electric energy					Code
Fuel oil (distillate and residual)		Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood, and purchased steam)	Fuels not specified by kind	Purchased		Generated	Generated and sold		
Quantity (1,000 barrels of 42 gallons)	Cost ($1,000)	Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	Quantity (million kw.-hrs.)	Cost ($1,000)	
195,615	623,341	4,308,106	1,455,928	337,099	(X)	313,961	2,823,337	82,156	7,895	83,443	
166,301	522,704	3,112,212	900,901	147,873	[2]355,553	252,909	2,230,805	75,505	8,655	(NA)	
186,455	581,201	5,914,898	847,303	201,979	28,669	187,148	1,727,806	69,683	9,044	(NA)	
21,045	72,210	330,274	141,609	45,498	(X)	19,055	269,945	2,573	131	1,767	20
25,225	67,472	243,866	88,487	20,298	49,160	15,778	224,308	2,399	133	(NA)	
20,458	67,640	262,852	69,542	25,000	-	12,005	168,645	2,064	97	(NA)	
374	1,237	1,672	861	588	(X)	398	5,218	204	(S)	(S)	21
400	1,076	1,203	593	398	-	327	4,377	146	15	(NA)	
278	869	595	267	266	-	241	3,498	99	10	(NA)	
9,945	30,001	53,075	22,480	9,958	(X)	14,143	134,422	1,064	269	2,008	22
7,555	23,128	32,218	11,696	5,704	16,258	11,925	117,139	1,123	220	(NA)	
10,696	29,730	22,184	8,098	2,103	-	10,959	112,840	1,428	237	(NA)	
1,140	4,690	7,147	4,386	8,692	(X)	2,218	43,416	10	-	-	23
-	-	-	-	-	15,784	1,751	35,779	13	(Z)	(NA)	
212	561	128	55	41	12,534	940	24,051	4	-	-	
3,843	17,706	24,451	10,986	56,137	(X)	4,486	64,305	1,244	228	2,123	24
2,286	13,032	6,866	3,491	10,415	40,680	3,404	49,515	1,284	318	(NA)	
4,060	17,324	20,475	5,150	27,085	-	3,218	41,505	1,276	225	(NA)	
882	3,598	8,746	5,175	4,768	(X)	1,692	27,812	58	(S)	(S)	25
488	2,295	3,204	1,644	629	6,822	1,391	24,329	73	5	(NA)	
667	2,760	6,434	2,411	751	-	1,131	18,830	87	1	(NA)	
31,105	80,189	265,118	83,787	14,247	(X)	17,052	155,870	22,265	1,100	11,220	26
25,285	69,870	212,213	53,952	12,225	6,871	12,538	116,283	17,875	897	(NA)	
22,472	57,489	116,604	24,839	33,397	-	10,852	91,452	14,183	1,496	(NA)	
1,438	5,794	17,856	11,115	6,505	(X)	4,014	67,176	6	1	16	27
-	-	-	-	-	21,783	3,009	51,720	11	1	(NA)	
-	-	-	-	-	16,135	1,680	36,150	5	(Z)	(NA)	
19,866	57,204	782,894	206,169	35,740	(X)	90,355	499,625	19,801	1,931	19,296	28
15,714	47,761	558,801	124,434	24,101	24,235	85,564	428,648	17,336	2,823	(NA)	
17,688	50,368	481,510	128,568	13,690	-	46,255	286,015	16,425	1,514	(NA)	
9,825	25,598	960,535	218,419	13,690	(X)	12,652	102,171	4,327	315	2,307	29
3,805	12,550	794,456	154,365	8,893	2,307	9,496	77,419	4,201	383	(NA)	
4,053	10,459	548,554	84,185	2,502	-	5,863	47,743	4,028	449	(NA)	
3,833	11,626	31,047	13,741	4,662	(X)	6,691	81,483	697	(S)	(S)	30
3,061	11,783	20,700	7,188	1,466	2,349	4,819	58,520	707	66	(NA)	
3,107	9,089	14,872	4,732	841	-	3,961	45,646	763	88	(NA)	
1,462	4,496	6,531	3,380	3,184	(X)	891	15,935	74	9	131	31
920	3,120	1,928	929	965	5,198	776	14,733	163	2	(NA)	
1,213	3,868	3,371	1,244	477	-	645	11,859	74	3	(NA)	
13,606	46,345	559,455	217,031	38,565	(X)	15,538	167,316	1,876	77	963	32
13,651	46,192	446,111	155,243	12,872	25,875	12,091	130,863	2,362	94	(NA)	
15,690	51,194	390,841	112,441	11,866	-	9,157	95,116	2,510	94	(NA)	
46,182	155,884	937,321	333,091	28,454	(X)	71,251	499,987	25,690	3,220	35,402	33
47,083	157,803	634,683	220,694	19,449	7,321	50,663	369,777	25,696	3,263	(NA)	
56,673	176,680	3,836,021	312,515	34,765	-	47,429	316,036	23,575	3,763	(NA)	
7,104	25,621	92,602	55,416	16,799	(X)	8,881	137,812	110	(S)	(S)	34
6,151	20,332	49,241	26,800	4,192	27,363	7,130	108,789	161	(Z)	(NA)	
6,622	25,076	62,251	28,666	4,898	-	5,947	88,652	97	1	(NA)	
7,705	26,969	75,554	42,246	14,026	(X)	10,330	147,823	859	268	3,110	35
3,747	12,099	25,522	12,358	5,276	47,715	7,603	115,240	725	229	(NA)	
10,311	36,199	78,908	34,647	27,555	-	12,396	166,388	1,072	135	(NA)	
5,152	17,623	53,837	31,662	9,368	(X)	11,699	137,657	306	81	1,670	36
2,347	7,763	19,056	10,008	4,056	28,034	7,688	95,128	382	56	(NA)	
7,003	22,542	73,284	39,085	16,648	(X)	17,490	193,099	336	61	1,522	37
7,388	22,042	55,772	25,969	14,218	4,056	13,375	153,204	365	95	(NA)	
6,691	23,968	45,698	20,761	12,657	-	11,118	123,500	1,600	914	(NA)	
1,476	5,031	9,101	5,461	(S)	(X)	1,744	25,299	447	13	86	38
152	759	595	410	850	8,314	1,083	17,211	368	14	(NA)	
889	3,009	4,841	1,915	585	-	728	11,404	277	9	(NA)	
2,630	8,977	17,606	9,828	7,289	(X)	3,382	46,966	208	28	380	39
1,044	3,627	5,779	2,640	1,866	15,428	2,498	37,823	115	41	(NA)	19
3,761	11,937	18,716	7,232	2,073	-	2,502	36,020	116	8	(NA)	

Hawaii for 1962 amounted to 3,027 million; the corresponding figures for 1958 and 1954 are 1,932 million and 2,051 million, respectively. [2]Includes $4.1 million reported by establishments located in Alaska and Hawaii, distributed by major group. This total includes 731 million barrels of fuel oil valued at $2.6 million and minor amounts of other specified fuels. [3]The 1954 totals include the following figures for Alaska and Hawaii which have not been distributed by major group: Coal, 1 thousand tons valued at $7,000; coke, 1 thousand tons valued at $28,000; fuel oil, 914 thousand barrels valued at $2,981,000; gas, 43 million cubic feet valued at $35,000; other fuels valued at $1,426,000, and purchased electric energy, 121 million kw.-hrs. valued at $2,456,000. [4]1954 data for Major Group 35 include figures for Major Group 36. [5]For 1954, figures for Major Group 36, see data for Major Group 35.

TABLE 7. Consumption for Heat and Power,

Code	Industry group and industry	Total cost of purchased fuels and electric energy	Purchased fuels						
			Total cost	Bituminous coal, lignite and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity	Cost	Quantity	Cost	Quantity	Cost
		($1,000)	($1,000)	(1,000 tons)	($1,000)	(1,000 tons)	($1,000)	(1,000 barrels)	($1,000)
		A	B	C	D	E	F	G	H
	All industries, total	6,184,057	3,360,720	89,438	639,518	17,747	304,834	195,615	623,341
20	Food and kindred products	595,281	325,336	8,752	64,154	70	1,865	21,045	72,210
201	Meat products	77,111	36,996	804	5,714	-	-	1,990	7,095
2011	Meat packing plants	54,300	28,140	717	5,271	-	-	1,302	4,485
2013	Prepared meats	9,940	4,261	24	199	-	-	368	1,309
2015	Poultry dressing plants	12,871	4,595	64	244	-	-	320	1,301
202	Dairy products	123,441	64,072	1,307	11,461	4	105	4,303	16,474
2021	Creamery butter	20,549	13,613	303	2,806	-	-	741	2,877
2022	Natural cheese	8,363	5,212	94	1,004	(S)	(S)	380	1,681
2023	Condensed and evaporated milk	14,388	10,747	513	4,568	-	-	462	1,492
2024	Ice cream and frozen desserts	12,305	3,124	22	104	(S)	(S)	261	1,054
2025	Special dairy products	971	369	12	101	-	-	22	78
2026	Fluid milk	66,865	31,007	362	2,878	(S)	(S)	2,438	9,292
203	Canned and frozen foods	63,678	37,720	662	5,500	(S)	(S)	3,303	11,407
2031	Canned and cured seafoods	4,475	2,997	4	61	-	-	305	1,563
2032	Canned specialities	8,534	5,932	354	2,668	-	-	304	1,023
2033	Canned fruits and vegetables	25,182	16,774	254	2,308	(S)	(S)	1,551	5,165
2034	Dehydrated fruits and vegetables	3,381	2,234	11	105	-	-	39	180
2035	Pickles and sauces	4,463	2,341	29	261	(S)	(S)	190	708
2036	Fresh or frozen packaged fish	2,859	1,201	-	-	-	-	83	380
2037	Frozen fruits and vegetables	14,784	6,241	10	97	-	-	831	2,388
204	Grain mill products	70,537	32,236	1,871	11,523	(S)	(S)	1,350	5,039
2041	Flour and meal	15,071	3,027	137	999	(S)	(S)	141	532
2042	Prepared animal feeds	32,770	13,187	69	466	-	-	955	3,522
2043	Cereal preparations	4,514	2,269	82	722	-	-	40	140
2044	Rice milling	1,647	376	-	-	-	-	-	-
2045	Blended and prepared flour	1,324	505	(S)	(S)	-	-	76	215
2046	Wet corn milling	15,211	12,872	1,578	9,281	-	-	(S)	(S)
205	Bakery products	54,858	31,853	51	598	(S)	(S)	1,931	7,702
2051	Bread and related products	47,119	27,361	42	522	(S)	(S)	1,726	6,972
2052	Biscuit and crackers	7,739	4,492	9	76	-	-	205	730
206	Sugar	36,180	33,128	1,251	9,423	55	1,473	2,311	5,813
2061	Raw cane sugar	4,252	2,520	(S)	(S)	-	-	356	1,108
2062	Cane sugar refining	12,034	11,570	261	2,627	-	-	1,504	3,531
2063	Beet sugar	19,894	19,038	988	6,776	55	1,473	451	1,174
207	Candy and related products	16,661	7,252	223	1,930	-	-	662	2,080
2071	Confectionery products	11,743	5,000	74	539	-	-	504	1,599
2072	Chocolate and cocoa products	4,020	1,951	139	1,280	-	-	112	354
2073	Chewing gum	898	301	(S)	(S)	-	-	46	127
208	Beverages	60,903	35,433	1,298	8,437	(S)	(S)	2,380	7,486
2082	Malt liquors	21,827	12,302	522	3,535	-	-	1,020	2,660
2083	Malt	5,678	3,717	8	82	(S)	(S)	69	299
2084	Wines and brandy	2,725	1,480	-	-	-	-	172	551
2085	Distilled liquor, except brandy	9,049	6,431	731	4,393	-	-	170	431
2086	Bottled and canned soft drinks	18,597	9,671	16	218	-	-	547	2,386
2087	Flavorings	3,027	1,832	(S)	(S)	-	-	401	1,159
209	Other food preparations	91,912	46,646	1,284	9,568	7	194	2,815	9,114
2091	Cottonseed oil mills	10,028	2,180	(S)	(S)	-	-	(S)	(S)
2092	Soybean oil mills	14,230	7,469	429	2,818	-	-	150	566
2093	Vegetable oil mills, n.e.c.	2,509	1,102	11	107	-	-	(S)	(S)
2094	Grease and tallow	15,548	11,434	257	2,254	7	194	772	2,612
2095	Animal oils, n.e.c.	2,388	1,750	-	-	-	-	306	933
2096	Shortening and cooking oils	11,463	7,684	298	1,998	-	-	560	1,455
2097	Manufactured ice	9,865	1,315	(S)	(S)	-	-	48	219
2098	Macaroni and spaghetti	1,787	582	15	145	-	-	60	172
2099	Food preparations, n.e.c.	24,094	13,130	217	1,745	-	-	762	2,742
21	Tobacco products	10,368	5,150	297	2,464	-	-	374	1,237
2111	Cigarettes	4,662	2,522	195	1,578	-	-	153	509
2121	Cigars	1,399	409	7	70	-	-	65	213
2131	Chewing and smoking tobacco	906	497	23	182	-	-	16	55
2141	Tobacco stemming and redrying	3,401	1,722	73	634	-	-	140	460

See footnotes at end of table.

by Industry Groups and Industries: 1962

Purchased fuels--Continued			Electric energy					Standard error of estimate (percent) for columns–[1]				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood, and purchased steam)	Purchased		Generated	Generated and sold						
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	Quantity (million kw.-hrs.)	Cost ($1,000)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N	O	P					
4,308,106	1,455,928	337,099	313,961	2,823,337	82,156	7,895	83,443	1	1	1	1	
330,274	141,609	45,498	19,055	269,945	2,573	131	1,767	2	2	4	1	20
42,286	16,332	7,855	2,881	40,115	153	(S)	(S)	3	7	1	3	201
35,203	12,842	5,542	2,050	26,160	151	(S)	(S)	3	10	3	4	2011
3,533	1,736	1,017	347	5,679	(S)	-	-	5	10	9	5	2013
3,550	1,754	1,296	483	8,276	(S)	-	-	8	4	2	8	2015
51,325	24,100	11,932	3,674	59,369	82	4	51	6	6	6	3	202
13,958	6,084	1,846	408	6,936	12	-	-	15	24	21	13	2021
3,315	1,576	949	189	3,151	(S)	-	-	11	9	19	6	2022
8,231	3,373	1,314	228	3,641	51	(S)	(S)	9	3	2	4	2023
1,928	1,213	700	596	9,181	-	-	-	1	16	18	6	2024
175	82	108	37	602	-	-	-					2025
23,718	11,772	7,015	2,216	35,858	20	(S)	(S)	9	7	6	3	2026
36,617	16,475	4,329	1,867	25,958	55	(S)	(S)	2	5	1	3	203
439	232	1,141	82	1,478	8	(S)	(S)	1	15	9	22	2031
4,143	1,840	401	206	2,602	35	(S)	(S)	1	21	23	5	2032
17,832	8,099	1,200	560	8,408	(S)	-	-	6	9	1	4	2033
4,036	1,810	139	84	1,147	-	-	-	1	28	4	9	2034
1,726	895	470	125	2,122	(S)	-	-	8	16	1	7	2035
287	226	595	92	1,658	(S)	(S)	(S)	(X)	16	9	10	2036
8,154	3,373	383	717	8,543	11	-	-	1	5	2	4	2037
29,984	11,861	3,812	2,969	38,301	872	8	85	1	13	9	3	204
2,519	1,062	433	1,115	12,044	30	-	-	4	11	10	5	2041
14,737	6,430	2,769	1,256	19,583	(S)	(S)	(S)	4	16	16	5	2042
2,188	996	411	218	2,245	37	(S)	(S)	1	1	1	1	2043
958	279	97	104	1,271	(S)	-	-	(X)	(X)	7	12	2044
306	196	39	62	819	(S)	-	-	-	1	1	2	2045
9,277	2,898	63	215	2,339	796	(S)	(S)	1	-	1	19	2046
30,477	18,713	4,787	1,509	23,005	(S)	-	-	23	8	4	3	205
24,930	15,377	4,437	1,239	19,758	(S)	-	-	27	9	5	4	2051
5,547	3,336	350	270	3,247	-	-	-	1	14	3	4	2052
48,851	16,153	266	220	3,052	876	66	854	1	1	1	1	206
3,937	1,158	234	130	1,732	239	(S)	(S)	1	1	1	1	2061
18,907	5,410	(S)	26	464	358	(S)	(S)	1	1	1	1	2062
26,007	9,585	(S)	65	856	279	-	-	1	1	1	1	2063
4,144	2,267	975	689	9,409	112	(S)	(S)	1	4	9	3	207
3,718	2,020	842	468	6,743	10	-	-	4	6	10	4	2071
382	224	93	180	2,069	(S)	(S)	(S)	1	3	1	3	2072
(S)	(S)	(S)	41	597	(S)	-	-	-	1	-	1	2073
30,176	13,811	5,669	1,712	25,470	320	(S)	(S)	4	3	6	5	208
13,636	5,512	595	801	9,525	223	(S)	(S)	10	1	8	6	2082
6,093	3,016	290	154	1,961	27	-	-	1	17	18	23	2083
(S)	(S)	103	83	1,245	-	-	-	(X)	22	-	23	2084
4,320	1,388	219	189	2,618	48	(S)	(S)	1	1	9	2	2085
4,177	2,864	4,203	415	8,926	(S)	-	-	18	7	10	9	2086
303	205	259	69	1,195	22	-	-	-	7	15	12	2087
56,413	21,897	5,873	3,532	45,266	103	-	-	7	9	7	5	209
4,927	1,844	154	748	7,848	-	-	-	-	-	10	9	2091
9,913	3,602	483	633	6,761	(S)	-	-	1	5	11	6	2092
1,439	625	108	118	1,407	-	-	-	1	-	1	17	2093
10,529	3,705	2,669	245	4,114	(S)	-	-	27	27	29	18	2094
1,846	723	94	35	638	-	-	-	1	28	25	19	2095
11,310	3,705	526	351	3,779	35	-	-	1	3	1	1	2096
(S)	(S)	197	687	8,550	(S)	-	-	-	18	-	18	2097
504	217	(S)	80	1,205	-	-	-	1	1	14	23	2098
15,009	7,049	1,594	636	10,964	24	-	-	8	7	10	10	2099
1,672	861	588	398	5,218	204	(S)	(S)	2	2	2	2	21
884	435	-	200	2,140	202	(S)	(S)	1	1	1	1	2111
138	74	52	67	990	-	-	-	1	14	1	2	2121
232	97	163	22	409	(S)	-	-	1	1	1	27	2131
418	255	373	110	1,679	-	-	-	10	1	8	2	2141

TABLE 7. Consumption for Heat and Power,

Code	Industry group and industry	Total cost of purchased fuels and electric energy	Purchased fuels							
			Total cost	Bituminous coal, lignite and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity	Cost	Quantity	Cost	Quantity	Cost
		($1,000)	($1,000)	(1,000 tons)	($1,000)	(1,000 tons)	($1,000)	(1,000 barrels)	($1,000)
		A	B	C	D	E	F	G	H
22	Textile mill products	221,529	87,107	3,051	24,661	(S)	(S)	9,945	30,001
2211	Weaving mills, cotton	57,740	12,670	697	5,601	-	-	465	1,425
2221	Weaving mills, synthetics	20,747	5,904	326	2,567	-	-	472	1,527
2231	Weaving, finishing mills, wool	15,624	7,913	249	2,089	-	-	1,417	4,073
2241	Narrow fabric mills	4,070	1,596	11	106	-	-	237	834
225	Knitting mills	28,324	13,387	240	2,024	(S)	(S)	1,520	5,344
2251	Full-fashioned hosiery mills	2,374	914	12	92	-	-	(S)	(S)
2252	Seamless hosiery mills	8,889	4,215	120	933	(S)	(S)	397	1,532
2253	Knit outerwear mills	6,565	2,804	11	112	-	-	257	965
2254	Knit underwear mills	2,562	1,265	45	395	-	-	92	334
2256	Knit fabric mills	7,395	3,861	49	451	-	-	630	1,910
2259	Knitting mills, n.e.c.	539	328	(S)	(S)	-	-	33	118
226	Textile finishing, except wool	37,290	26,241	1,038	8,281	-	-	3,342	9,082
2261	Finishing plants, cotton	23,404	17,572	788	6,358	-	-	1,735	4,869
2262	Finishing plants, synthetics	9,095	5,845	190	1,475	-	-	857	2,249
2269	Finishing plants, n.e.c.	4,791	2,824	60	448	-	-	(S)	(S)
227	Floor covering mills	8,785	5,261	148	1,253	-	-	571	1,814
2271	Woven carpets and rugs	3,768	2,193	105	880	-	-	316	901
2272	Tufted carpets and rugs	4,493	2,754	38	320	-	-	218	793
2279	Carpets and rugs, n.e.c.	524	314	5	53	-	-	(S)	(S)
228	Yarn and thread mills	27,900	5,669	207	1,660	(S)	(S)	566	1,798
2281	Yarn mills, except wool	16,739	2,361	102	826	(S)	(S)	176	637
2282	Throwing and winding mills	3,050	654	20	216	-	-	48	154
2283	Wool yarn mills	5,209	1,622	12	109	-	-	203	629
2284	Thread mills	2,902	1,032	74	509	-	-	139	378
229	Miscellaneous textile goods	21,049	8,466	136	1,080	-	-	1,354	4,104
2291	Felt goods, n.e.c.	1,902	979	11	85	-	-	216	643
2292	Lace goods	1,156	637	(S)	(S)	-	-	(S)	(S)
2293	Padding and upholstery filling	1,932	757	28	223	-	-	(S)	(S)
2294	Processed textile waste	1,832	524	(S)	(S)	-	-	88	275
2295	Coated fabric, not rubberized	5,522	3,147	51	411	-	-	597	1,666
2296	Tire cord and fabric	3,635	472	9	77	-	-	(S)	(S)
2297	Scouring and combing plants	1,968	962	(S)	(S)	-	-	194	628
2298	Cordage and twine	1,375	358	16	96	-	-	43	128
2299	Textile goods, n.e.c.	1,727	630	(S)	(S)	-	-	34	123
23	Apparel and related products	62,714	19,298	169	1,494	(S)	(S)	1,140	4,690
2311	Men's and boys' suits and coats	6,321	2,543	25	253	(S)	(S)	168	689
232	Men's and boys' furnishings	11,937	3,859	55	432	(S)	(S)	192	895
2321	Men's dress shirts and nightwear	4,218	1,346	19	138	-	-	87	407
2322	Men's and boys' underwear	720	293	(S)	(S)	(S)	(S)	31	124
2323	Men's and boys' neckwear	415	77	-	-	-	-	(S)	(S)
2327	Separate trousers	2,804	932	(S)	(S)	-	-	37	185
2328	Work clothing	1,949	694	13	72	-	-	22	107
2329	Men's and boys' clothing, n.e.c.	1,831	517	(S)	(S)	-	-	12	57
233	Women's and misses' outerwear	18,808	4,578	19	206	-	-	174	928
2331	Blouses	2,184	296	(S)	(S)	-	-	(S)	(S)
2335	Dresses	8,758	1,925	6	77	-	-	58	325
2337	Women's suits, coats and skirts	5,677	1,716	(S)	(S)	-	-	62	305
2339	Women's outerwear, n.e.c.	2,189	641	(S)	(S)	-	-	(S)	(S)
234	Women's undergarments	4,598	1,519	(S)	(S)	-	-	147	565
2341	Women's and children's underwear	3,081	894	(S)	(S)	-	-	76	351
2342	Corsets and allied garments	1,517	625	(S)	(S)	-	-	71	214
235	Millinery, hats, and caps	2,329	984	(S)	(S)	-	-	178	477
2351	Millinery	870	177	-	-	-	-	(S)	(S)
2352	Hats and caps	1,459	807	(S)	(S)	-	-	166	446
236	Children's outerwear	3,289	879	(S)	(S)	-	-	55	277
2361	Children's dresses	1,732	416	(S)	(S)	-	-	27	138
2363	Children's coats	579	154	-	-	-	-	(S)	(S)
2369	Children's outerwear, n.e.c.	978	309	-	-	-	-	24	115
2371	Fur goods	619	153	-	-	-	-	-	-
238	Miscellaneous apparel	3,562	1,106	(S)	(S)	-	-	36	186
2381	Fabric dress and work gloves	766	278	(S)	(S)	-	-	(S)	(S)
2385	Waterproof outergarments	965	247	(S)	(S)	-	-	(S)	(S)
2387	Apparel belts	573	121	(S)	(S)	-	-	(S)	(S)
2389	Apparel, n.e.c.	417	145	-	-	-	-	(S)	(S)
239	Fabricated textiles, n.e.c.	11,251	3,677	49	382	-	-	191	673
2392	Housefurnishings, n.e.c.	3,065	1,005	23	187	-	-	60	224
2393	Textile bags	997	449	(S)	(S)	-	-	(S)	(S)
2394	Canvas products	853	383	(S)	(S)	-	-	27	124
2397	Schiffli machine embroideries	590	193	-	-	-	-	(S)	(S)
2398	Trimmings and stitching	2,910	745	22	151	-	-	(S)	(S)
2399	Textile products, n.e.c.	1,592	550	(S)	(S)	-	-	(S)	(S)

See footnotes at end of table.

by Industry Groups and Industries: 1962--Continued

Purchased fuels--Continued			Electric energy					Standard error of estimate (percent) for columns--[1]				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood, and purchased steam)	Purchased		Generated	Generated and sold						
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	Quantity (million kw.-hrs.)	Cost ($1,000)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N	O	P					
53,075	22,480	9,958	14,143	134,422	1,064	269	2,008	1	5	2	1	22
13,735	4,794	850	5,905	45,070	402	9	126	1	1	1	1	2211
3,434	1,599	211	1,759	14,843	241	(S)	(S)	1	9	1	8	2221
3,100	1,265	486	688	7,711	51	(S)	(S)	7	5	6	2	2231
506	271	385	148	2,474	(S)	(S)	(S)	1	10	7	9	2241
7,317	3,197	2,817	1,068	14,937	(S)	-	-	7	8	3	3	225
521	235	102	95	1,460	(S)	-	-	1	-	1	8	2251
2,333	1,147	598	389	4,674	(S)	-	-	5	13	4	4	2252
2,459	743	984	211	3,761	(S)	-	-	1	5	7	6	2253
1,044	451	85	99	1,297	-	-	-	8	3	1	5	2254
866	558	942	266	3,534	(S)	-	-	29	16	13	8	2256
93	63	106	8	211	-	-	-	-	17	16	24	2259
14,240	5,924	2,954	875	11,049	272	79	694	2	16	7	10	226
11,194	4,211	2,134	509	5,832	249	(S)	(S)	3	7	1	9	2261
2,427	1,403	718	227	3,250	23	(S)	(S)	1	1	1	24	2262
619	310	102	139	1,967	(S)	(S)	(S)	1	-	3	29	2269
3,659	1,749	445	300	3,524	26	(S)	(S)	1	4	6	3	227
698	278	134	150	1,575	22	(S)	(S)	1	2	1	3	2271
2,715	1,346	295	142	1,739	(S)	-	-	1	1	5	4	2272
(S)	(S)	(S)	(S)	(S)	(S)	-	-	1	(S)	(S)	(S)	2279
2,863	1,331	878	2,390	22,231	54	(S)	(S)	11	2	2	2	228
1,254	566	330	1,676	14,378	33	(S)	(S)	22	1	1	2	2281
305	163	121	228	2,396	(S)	-	-	14	20	6	7	2282
1,011	472	412	291	3,587	(S)	-	-	9	5	2	9	2283
294	130	(S)	195	1,870	17	-	-	6	1	8	5	2284
4,221	2,350	932	1,009	12,583	15	(S)	(S)	4	6	9	3	229
440	230	(S)	55	923	(S)	(S)	(S)	1	5	9	7	2291
(S)	(S)	97	28	519	(S)	(S)	(S)	-	-	-	21	2292
302	196	103	65	1,175	-	-	-	1	-	5	15	2293
(S)	(S)	66	78	1,308	(S)	-	-	-	22	-	19	2294
1,690	1,027	(S)	151	2,375	(S)	-	-	1	6	19	8	2295
573	300	52	385	3,163	-	-	-	1	-	1	1	2296
436	156	169	75	1,006	(S)	-	-	-	10	19	8	2297
176	77	57	82	1,017	-	-	-	1	1	1	2	2298
333	123	324	90	1,097	-	-	-	-	1	16	12	2299
7,147	4,386	8,692	2,218	43,416	10	-	-	6	5	7	3	23
868	559	1,007	192	3,778	(S)	-	-	4	10	7	7	2311
1,906	1,164	1,367	424	8,078	(S)	-	-	12	10	9	5	232
396	251	550	149	2,872	-	-	-	7	15	12	8	2321
138	84	51	25	427	(S)	-	-	-	24	1	12	2322
(S)	(S)	(S)	(S)	(S)	-	-	-	(X)	-	-	-	2323
608	354	298	101	1,872	-	-	-	-	27	16	9	2327
431	260	255	61	1,255	-	-	-	28	1	5	6	2328
(S)	(S)	155	70	1,314	-	-	-	-	18	-	15	2329
858	619	2,325	681	14,230	(S)	-	-	19	13	11	6	233
(S)	(S)	(S)	86	1,888	-	-	-	-	-	-	22	2331
197	141	1,382	324	6,833	(S)	-	-	13	19	14	9	2335
314	215	1,175	193	3,961	(S)	-	-	-	20	19	8	2337
306	219	258	78	1,548	-	-	-	-	-	23	10	2339
554	342	580	165	3,079	(S)	-	-	-	11	6	5	234
214	155	367	122	2,187	-	-	-	-	17	7	7	2341
340	187	213	44	892	(S)	-	-	-	1	5	6	2342
(S)	(S)	276	73	1,345	(S)	-	-	-	8	-	13	235
(S)	(S)	126	38	693	-	-	-	(X)	-	-	22	2351
(S)	(S)	150	35	652	(S)	-	-	-	9	-	17	2352
(S)	(S)	460	114	2,410	-	-	-	-	14	-	11	236
(S)	(S)	232	56	1,316	-	-	-	-	22	-	18	2361
(S)	(S)	77	22	425	-	-	-	(X)	-	-	21	2363
(S)	(S)	151	36	669	-	-	-	-	17	-	14	2369
(S)	(S)	144	30	466	-	-	-	(X)	(X)	-	19	2371
573	291	499	120	2,456	(S)	-	-	-	27	24	11	238
227	86	68	23	488	-	-	-	-	-	23	29	2381
(S)	(S)	112	37	718	-	-	-	-	-	-	22	2385
(S)	(S)	94	20	452	(S)	-	-	-	-	-	20	2387
(S)	(S)	56	13	272	-	-	-	(X)	-	-	18	2389
1,805	1,088	1,534	418	7,574	-	-	-	5	15	19	9	239
550	308	286	104	2,060	-	-	-	5	27	26	12	2392
(S)	(S)	232	30	548	-	-	-	-	-	-	15	2393
173	115	134	27	470	-	-	-	-	24	17	9	2394
(S)	(S)	136	22	397	-	-	-	(X)	-	-	13	2397
(S)	(S)	253	128	2,165				1	-	-	17	2398
154	104	251	59	1,042	-	-	-	-	-	19	23	2399

TABLE 7. Consumption for Heat and Power,

Code	Industry group and industry	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels							
			Total cost ($1,000)	Bituminous coal, lignite and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 barrels)	Cost ($1,000)
		A	B	C	D	E	F	G	H
24	Lumber and wood products	151,920	87,615	324	2,764	(S)	(S)	3,843	17,706
2411	Logging camps and contractors	30,009	27,109	(S)	(S)	-	-	894	4,765
242	Sawmills and planing mills	73,018	40,217	55	403	(S)	(S)	1,963	9,331
2421	Sawmills and planing mills	67,639	38,181	44	319	(S)	(S)	1,868	8,945
2426	Hardwood dimension and flooring	3,848	1,239	10	82	-	-	(S)	(S)
243	Millwork and related products	27,319	10,254	117	1,009	(S)	(S)	486	1,714
2431	Millwork plants	8,560	2,429	30	290	-	-	93	460
2432	Veneer and plywood plants	17,000	7,080	79	643	(S)	(S)	366	1,112
2433	Prefabricated wood products	1,759	745	8	76	-	-	(S)	(S)
244	Wooden containers	5,398	1,659	5	52	-	-	57	247
2441	Nailed wooden boxes and shook	3,239	979	(S)	(S)	-	-	39	175
2442	Wirebound boxes and crates	1,320	418	(S)	(S)	-	-	(S)	(S)
2443	Veneer and plywood containers	399	105	(S)	(S)	-	-	(S)	(S)
2445	Cooperage	440	157	(S)	(S)	-	-	(S)	(S)
249	Miscellaneous wood products	16,176	8,376	(S)	(S)	-	-	443	1,649
2491	Wood preserving	4,300	3,148	73	544	-	-	137	433
2499	Wood products, n.e.c.	11,876	5,228	(S)	(S)	-	-	306	1,216
25	Furniture and fixtures	45,047	17,235	474	3,678	(S)	(S)	882	3,598
251	Household furniture	30,299	10,859	338	2,666	(S)	(S)	547	2,311
2511	Wood furniture not upholstered	15,609	4,777	267	2,061	-	-	217	935
2512	Wood furniture, upholstered	5,639	2,275	38	343	-	-	147	590
2514	Metal household furniture	4,609	1,987	22	160	(S)	(S)	107	449
2515	Mattresses and bedsprings	4,047	1,704	8	85	-	-	(S)	(S)
2519	Household furniture, n.e.c.	395	116	(S)	(S)	-	-	(S)	(S)
252	Office furniture	4,056	1,885	66	413	-	-	126	429
2521	Wood office furniture	811	290	27	151	-	-	(S)	(S)
2522	Metal office furniture	3,245	1,595	38	262	-	-	111	379
2531	Public building furniture	2,708	1,062	30	244	(S)	(S)	49	215
254	Partitions and fixtures	5,725	2,473	24	204	-	-	106	458
259	Furniture and fixtures, n.e.c.	2,259	956	16	151	-	-	53	185
2591	Venetian blinds and shades	1,266	560	6	55	-	-	25	94
2599	Furniture and fixtures, n.e.c.	993	396	10	96	-	-	28	91
26	Paper and allied products	458,755	302,885	15,145	123,785	102	877	31,105	80,189
2611	Pulp mills	29,995	23,566	533	4,608	-	-	3,447	8,356
2621	Paper mills, except building	197,513	130,424	7,714	63,969	98	795	11,368	29,472
2631	Paperboard mills	122,102	93,401	5,511	43,069	-	-	11,218	26,849
2661	Building paper and board mills	30,732	18,163	667	6,019	-	-	1,038	2,704
264	Paper and paperboard products	40,330	19,698	550	4,748	4	82	1,732	5,487
2641	Paper coating and glazing	13,620	8,375	384	3,202	2	71	437	1,354
2642	Envelopes	3,313	873	(S)	(S)	-	-	60	236
2643	Bags, except textile bags	5,866	1,977	19	118	(S)	(S)	202	688
2644	Wallpaper	222	135	(S)	(S)	-	-	(S)	(S)
2645	Die cut paper and board	2,865	1,202	21	189	-	-	93	280
2646	Pressed and molded pulp goods	5,556	2,836	65	664	-	-	313	1,165
2649	Paper and board products, n.e.c.	8,888	4,300	54	512	-	-	612	1,715
265	Paperboard containers and boxes	38,083	17,633	170	1,372	-	-	2,301	7,321
2651	Folding paperboard boxes	6,744	2,240	35	137	-	-	237	850
2652	Set-up paperboard boxes	2,032	670	(S)	(S)	-	-	60	240
2653	Corrugated shipping containers	19,746	10,996	73	669	-	-	1,665	5,167
2654	Sanitary food containers	7,472	2,790	22	218	-	-	212	661
2655	Fiber cans, tubes, drums, etc.	2,089	937	33	273	-	-	127	403
27	Printing and publishing	91,861	24,685	126	1,271	-	-	1,438	5,794
2711	Newspapers	26,593	6,082	(S)	(S)	-	-	330	1,422
2721	Periodicals	5,041	1,233	24	235	-	-	40	175
273	Books	6,078	1,671	13	106	-	-	174	628
2731	Books, publishing and printing	2,553	760	8	69	-	-	44	164
2732	Book printing	3,525	911	(S)	(S)	-	-	131	464
2741	Miscellaneous publishing	1,339	367	(S)	(S)	-	-	24	102
275	Commercial printing	39,544	11,792	74	744	-	-	704	2,794
2751	Printing: Letterpress	24,109	7,826	51	556	-	-	521	1,970
2752	Printing: Lithographic	14,421	3,844	22	184	-	-	168	772
2753	Engraving and plate printing	1,014	122	(S)	(S)	-	-	15	52
2761	Manifold business forms	2,603	637	(S)	(S)	-	-	55	216
2771	Greeting cards	2,093	761	(S)	(S)	-	-	32	125
278	Bookbinding and related work	3,580	981	(S)	(S)	-	-	44	170
2782	Blankbooks; looseleaf binders	2,148	611	(S)	(S)	-	-	35	141
2789	Bookbinding and related work	1,432	370	-	-	-	-	10	29
279	Printing trades services	4,990	1,161	-	-	-	-	(S)	(S)
2793	Photoengraving	1,198	353	-	-	-	-	(S)	(S)
2794	Electrotyping and stereotyping	990	329	-	-	-	-	(S)	(S)

See footnotes at end of table.

by Industry Groups and Industries: 1962--Continued

Purchased fuels--Continued			Electric energy					Standard error of estimate (percent) for columns--[1]				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood, and purchased steam)	Purchased		Generated	Generated and sold						
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	Quantity (million kw.-hrs.)	Cost ($1,000)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N	O	P					
24,451	10,986	56,137	4,486	64,305	1,244	228	2,123	16	7	5	2	24
2,679	1,396	20,873	193	2,900	24	(S)	(S)	-	11	24	10	2411
7,697	3,363	27,108	2,302	32,801	1,010	216	2,001	15	12	13	3	242
7,014	3,006	25,899	2,115	29,458	917	212	1,983	19	12	15	3	2421
564	270	694	148	2,609	89	(S)	(S)	24	-	19	8	2426
6,746	3,222	4,299	1,332	17,065	192	8	84	18	13	5	3	243
1,106	639	1,040	318	6,131	8	(S)	(S)	10	12	10	5	2431
5,322	2,369	2,946	952	9,920	183	(S)	(S)	26	19	6	5	2432
318	214	313	62	1,014	(S)	-	-	1	-	19	8	2433
885	367	993	219	3,739	10	-	-	1	9	8	7	244
(S)	(S)	646	138	2,260	(S)	-	-	1	13	-	11	2441
422	146	207	49	902	(S)	-	-	-	-	21	11	2442
(S)	(S)	90	15	294	-	-	-	-	-	-	17	2443
198	69	(S)	17	283	(S)	-	-	-	-	1	4	2445
6,444	2,638	2,864	439	7,800	8	(S)	(S)	-	13	10	7	249
4,434	1,609	562	60	1,152	(S)	(S)	(S)	9	21	14	8	2491
2,010	1,029	2,302	380	6,648	7	(S)	(S)	-	16	6	8	2499
8,746	5,175	4,768	1,692	27,812	58	(S)	(S)	4	6	3	2	25
4,397	2,532	3,349	1,203	19,440	57	(S)	(S)	5	9	3	3	251
1,279	617	1,164	704	10,832	55	(S)	(S)	6	9	10	3	2511
700	391	951	191	3,364	(S)	-	-	9	22	2	5	2512
1,276	844	533	157	2,622	(S)	-	-	1	11	7	5	2514
1,118	659	655	137	2,343	(S)	-	-	12	-	21	12	2515
(S)	(S)	(S)	(S)	(S)	-	-	-	-	-	-	-	2519
1,430	934	109	139	2,171	(S)	-	-	1	5	1	3	252
(S)	(S)	(S)	25	521	(S)	-	-	1	-	-	10	2521
1,370	891	63	115	1,650	(S)	-	-	1	5	1	2	2522
617	387	201	98	1,646	-	-	-	12	19	16	10	2531
1,783	1,064	747	183	3,252	-	-	-	1	9	15	6	254
520	258	362	69	1,303	(S)	-	-	7	16	12	9	259
358	176	235	40	706	-	-	-	18	21	11	10	2591
162	82	127	29	597	(S)	-	-	10	22	12	15	2599
265,118	83,787	14,247	17,052	155,870	22,265	1,100	11,220	1	1	1	1	26
28,067	9,169	1,433	1,138	6,429	2,053	(S)	(S)	1	1	1	1	2611
106,096	31,680	4,508	8,294	67,089	11,365	521	5,452	1	1	1	1	2621
75,936	21,406	2,077	3,192	28,701	7,154	184	1,792	2	2	1	3	2631
25,136	8,185	1,255	1,420	12,569	621	(S)	(S)	1	1	1	1	2661
17,685	6,906	2,475	1,584	20,632	828	(S)	(S)	2	4	6	3	264
9,319	2,746	1,002	444	5,245	766	(S)	(S)	3	12	2	3	2641
713	520	83	141	2,440	-	-	-	-	1	29	18	2642
1,357	708	452	283	3,889	30	-	-	1	-	6	5	2643
(S)	(S)	(S)	4	87	-	-	-	-	-	-	1	2644
(S)	(S)	279	104	1,663	(S)	-	-	16	18	-	17	2645
(S)	(S)	88	235	2,720	(S)	-	-	1	12	-	11	2646
3,535	1,522	551	373	4,588	20	-	-	1	4	3	3	2649
12,198	6,441	2,499	1,425	20,450	245	117	1,150	3	3	3	2	265
1,278	653	600	315	4,504	9	-	-	1	7	6	4	2651
153	114	241	66	1,362	-	-	-	-	13	26	13	2652
7,047	3,792	1,368	586	8,750	12	-	-	5	3	6	2	2653
3,343	1,645	266	388	4,682	87	-	-	1	1	1	2	2654
378	237	(S)	69	1,152	137	117	1,150	1	7	4	4	2655
17,856	11,115	6,505	4,014	67,176	6	(S)	(S)	11	6	5	7	27
4,507	2,599	2,016	1,326	20,511	-	-	-	-	16	8	19	2711
693	416	407	229	3,808	(S)	(S)	(S)	13	29	14	10	2721
1,112	614	323	273	4,407	-	-	-	1	8	15	8	273
555	323	204	107	1,793	-	-	-	1	6	17	8	2731
557	291	119	166	2,614	-	-	-	-	11	24	13	2732
180	109	153	46	972	-	-	-	-	10	18	7	2741
8,674	5,569	2,685	1,593	27,752	(S)	(S)	(S)	15	8	9	6	275
5,895	3,724	1,576	1,013	16,283	-	-	-	20	10	12	9	2751
2,714	1,807	1,081	536	10,577	(S)	(S)	(S)	5	17	11	7	2752
(S)	(S)	28	(S)	(S)	-	-	-	-	1	-	-	2753
396	296	119	130	1,966	-	-	-	-	5	17	18	2761
711	398	149	83	1,332	-	-	-	-	24	13	17	2771
746	472	296	153	2,599	(S)	-	-	-	18	28	15	278
(S)	(S)	125	95	1,537	-	-	-	-	21	-	22	2782
(S)	(S)	171	58	1,062	(S)	-	-	(X)	1	-	16	2789
(S)	(S)	357	181	3,829	(S)	-	-	(X)	-	-	17	279
(S)	(S)	(S)	(S)	(S)	-	-	-	(X)	-	-	-	2793
(S)	(S)	102	31	661	-	-	-	(X)	-	-	29	2794

TABLE 7. Consumption for Heat and Power,

Code	Industry group and industry	Total cost of purchased fuels and electric energy	Purchased fuels						
			Total cost	Bituminous coal, lignite and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity	Cost	Quantity	Cost	Quantity	Cost
		($1,000)	($1,000)	(1,000 tons)	($1,000)	(1,000 tons)	($1,000)	(1,000 barrels)	($1,000)
		A	B	C	D	E	F	G	H
28	Chemicals and allied products	951,252	451,627	22,600	147,252	383	5,262	19,866	57,204
281	Basic chemicals	715,487	311,873	15,126	96,958	360	5,023	9,963	28,397
2812	Alkalies and chlorine	78,396	41,497	3,617	23,027	(S)	(S)	470	1,263
2813	Industrial gases	36,977	6,217	296	1,415	(S)	(S)	309	1,079
2814	Cyclic (coal tar) crudes	3,968	3,231	80	377	-	-	(S)	(S)
2815	Intermediate coal tar products	36,955	23,383	1,034	7,496	(S)	(S)	1,598	4,198
2816	Inorganic pigments	20,606	14,606	497	3,959	(S)	(S)	1,800	5,473
2818	Organic chemicals, n.e.c.	173,484	124,208	5,626	33,485	(S)	(S)	2,742	7,273
2819	Inorganic chemicals, n.e.c.	365,101	98,731	3,977	27,199	180	2,922	2,720	8,420
282	Fibers, plastics, rubbers	107,953	71,106	5,772	37,635	(S)	(S)	2,951	7,842
2821	Plastics materials	47,795	26,283	1,549	11,198	(S)	(S)	2,086	5,585
2822	Synthetic rubber	16,467	9,669	(S)	(S)	-	-	(S)	(S)
2823	Cellulosic man-made fibers	23,026	21,240	2,868	17,292	-	-	240	658
2824	Organic fibers, noncellulosic	20,665	13,914	(S)	(S)	-	-	(S)	(S)
283	Drugs	28,361	13,438	539	3,626	-	-	2,152	5,565
2831	Biological products	1,344	679	(S)	(S)	-	-	46	160
2833	Medicinals and botanicals	8,166	4,869	274	1,419	-	-	1,140	2,748
2834	Pharmaceutical preparations	18,851	7,890	255	2,119	-	-	965	2,657
284	Cleaning and toilet goods	22,609	13,168	298	2,250	(S)	(S)	1,208	4,016
2841	Soap and other detergents	13,203	9,002	264	1,915	(S)	(S)	690	2,320
2842	Polishes and sanitation goods	4,350	1,728	(S)	(S)	-	-	124	421
2843	Surface active agents	1,790	1,189	(S)	(S)	-	-	192	592
2844	Toilet preparations	3,266	1,249	(S)	(S)	-	-	203	683
285	Paints and varnishes	13,153	5,737	56	508	(S)	(S)	605	2,349
2851	Paints and varnishes	12,480	5,463	56	508	(S)	(S)	559	2,140
2861	Gum and wood chemicals	5,457	3,999	(S)	(S)	-	-	296	814
287	Agricultural chemicals	25,350	11,976	(S)	(S)	(S)	(S)	1,202	3,839
2871	Fertilizers	23,052	10,923	(S)	(S)	(S)	(S)	1,116	3,522
2872	Fertilizers, mixing only								
2873	Agricultural pesticides								
2879	Agricultural chemicals, n.e.c.	2,298	1,053	(S)	(S)	(S)	(S)	87	317
289	Other chemical products	32,882	20,330	743	5,682	-	-	1,490	4,382
2891	Glue and gelatin	5,107	3,715	119	998	-	-	753	2,028
2892	Explosives	4,152	2,480	166	1,320	-	-	183	567
2893	Printing ink	2,451	817	(S)	(S)	-	-	158	468
2894	Fatty acids	2,410	1,677	(S)	(S)	-	-	75	213
2895	Carbon black	5,294	2,620	-	-	-	-	-	-
2899	Chemical preparations, n.e.c.	13,468	9,021	397	2,954	-	-	320	1,106
29	Petroleum and coal products	365,145	262,974	934	5,163	5	104	9,825	25,598
2911	Petroleum refining	336,916	242,997	789	4,101	-	-	7,334	16,806
295	Paving and roofing materials	24,440	17,548	97	696	(S)	(S)	2,269	8,051
2951	Paving mixtures and blocks	14,543	10,618	(S)	(S)	(S)	(S)	1,391	5,558
2952	Asphalt felts and coatings	9,897	6,930	93	656	4	72	878	2,493
299	Petroleum and coal products, n.e.c.	3,789	2,429	48	366	(S)	(S)	222	741
2992	Lubricating oils and greases	1,666	965	(S)	(S)	-	-	138	428
2999	Petroleum and coal products, nec	2,123	1,464	17	166	(S)	(S)	(S)	(S)
30	Rubber and plastics products, n.e.c.	126,961	45,478	2,339	15,380	2	69	3,833	11,626
3011	Tires and inner tubes	34,585	14,371	1,467	9,095	-	-	303	892
3021	Rubber footwear	3,001	1,000	8	77	-	-	284	733
3031	Reclaimed rubber	3,012	841	77	357	-	-	(S)	(S)
3069	Fabricated rubber products, n.e.c.	38,092	15,495	634	4,802	-	-	1,810	5,280
3079	Plastics products, n.e.c.	48,271	13,771	153	1,049	2	69	1,405	4,606
31	Leather and leather products	30,581	14,646	404	3,582	(S)	(S)	1,462	4,496
3111	Leather tanning and finishing	12,686	8,183	324	2,793	-	-	988	2,775
3121	Industrial leather belting	1,732	1,348	-	-	-	-	34	87
3131	Footwear cut stock	1,349	568	6	73	-	-	(S)	(S)
314	Footwear, except rubber	11,072	3,424	71	681	(S)	(S)	323	1,198
3141	Footwear, except rubber	10,478	3,251	70	670	(S)	(S)	302	1,121
3142	House slippers	594	173	(S)	(S)	-	-	20	77
3151	Leather gloves	236	112	(S)	(S)	-	-	(S)	(S)
3161	Luggage	1,182	334	(S)	(S)	-	-	21	76
317	Purses and small leather goods	1,867	485	(S)	(S)	-	-	44	146
3171	Handbags and purses	1,000	254	(S)	(S)	-	-	(S)	(S)
3172	Small leather goods	867	231	(S)	(S)	-	-	34	106
3199	Leather goods, n.e.c.	457	192	(S)	(S)	-	-	(S)	(S)

See footnotes at end of table.

by Industry Groups and Industries: 1962 -Continued

Purchased fuels--Continued			Electric energy					Standard error of estimate (percent) for columns--[1]				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood, and purchased steam)	Purchased		Generated	Generated and sold						
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	Quantity (million kw.-hrs.)	Cost ($1,000)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N	O	P					
782,894	206,169	35,740	90,355	499,625	19,801	1,931	19,296	1	2	1	1	28
654,064	160,656	20,839	81,274	403,614	16,302	1,689	16,919	1	3	1	1	281
64,372	15,092	(S)	6,152	36,899	3,900	(S)	(S)	1	1	1	1	2812
4,574	1,815	(S)	3,499	30,760	307	(S)	(S)	1	3	1	2	2813
4,089	1,336	827	70	737	-	-	-	1	-	1	1	2814
39,493	10,046	1,533	1,579	13,572	259	(S)	(S)	4	2	1	4	2815
10,788	4,969	181	601	6,000	179	(S)	(S)	1	10	1	10	2816
327,663	69,441	13,974	7,351	49,276	8,115	1,304	13,354	1	4	1	1	2818
203,085	57,957	2,233	62,022	266,370	3,541	82	486	1	4	1	1	2819
59,514	20,214	5,414	4,394	36,847	2,892	183	1,798	1	6	1	2	282
20,011	7,006	2,493	2,289	21,512	336	(S)	(S)	1	9	1	3	2821
15,667	5,207	2,494	902	6,798	-	-	-	-	-	1	1	2822
8,742	2,863	427	330	1,786	1,671	(S)	(S)	1	2	1	1	2823
15,094	5,138	-	873	6,751	884	(S)	(S)	-	1	1	1	2824
6,071	2,829	1,418	1,299	14,923	168	-	-	3	2	3	3	283
552	319	112	48	665	-	-	-	-	1	8	14	2831
1,256	475	227	302	3,297	127	-	-	6	3	2	3	2833
4,263	2,035	1,079	949	10,961	41	-	-	1	1	3	3	2834
13,146	5,220	1,469	621	9,441	98	(S)	(S)	4	2	8	13	284
10,607	4,007	547	319	4,201	96	(S)	(S)	1	2	11	2	2841
1,037	469	601	(S)	(S)	(S)	-	-	-	12	11	-	2842
1,108	467	102	51	601	(S)	-	-	-	10	15	12	2843
394	277	219	119	2,017	-	-	-	-	1	7	8	2844
3,045	2,008	854	447	7,416	(S)	-	-	10	8	7	5	285
3,003	1,971	826	436	7,017	(S)	-	-	10	8	7	4	2851
4,768	1,692	1,247	120	1,458	92	(S)	(S)	-	1	8	20	2861
14,876	5,328	2,455	1,185	13,374	94	(S)	(S)	-	3	2	2	287
13,211	4,936	2,150	1,079	12,129	46	-	-	-	8	6	5	2871, 2872
1,665	392	305	106	1,245	48	(S)	(S)	-	2	1	5	2873, 2879
27,410	8,222	2,044	1,014	12,552	151	(S)	(S)	2	8	8	3	289
700	370	319	99	1,392	30	-	-	1	16	19	12	2891
1,397	485	108	140	1,672	(S)	-	-	8	1	1	2	2892
214	138	209	73	1,634	-	-	-	-	6	1	9	2893
2,114	756	300	75	733	(S)	-	-	-	1	1	1	2894
13,880	2,586	34	287	2,674	22	-	-	(X)	(X)	1	1	2895
9,105	3,887	1,074	340	4,447	90	(S)	(S)	1	9	17	6	2899
960,535	218,419	13,690	12,652	102,171	4,327	315	2,307	1	6	1	1	29
942,488	210,880	11,210	12,147	93,919	4,313	(S)	(S)	1	8	1	1	2911
14,934	6,440	2,275	427	6,892	14	(S)	(S)	6	9	9	5	295
6,502	3,320	1,686	192	3,925	(S)	-	-	-	13	17	8	2951
8,432	3,120	589	235	2,967	12	(S)	(S)	5	4	2	4	2952
3,112	1,099	205	78	1,360	-	-	-	8	15	9	14	299
557	248	89	40	701	-	-	-	-	12	28	26	2992
2,556	851	116	38	659	-	-	-	18	-	7	11	2999
31,047	13,741	4,662	6,691	81,483	697	(S)	(S)	1	3	4	2	30
13,070	4,239	145	2,165	20,214	605	(S)	(S)	1	5	1	1	3011
253	134	56	138	2,001	(S)	-	-	1	1	1	1	3021
349	124	245	257	2,171	(S)	-	-	1	-	1	5	3031
8,871	4,213	1,200	1,761	22,597	87	-	-	1	6	11	4	3069
8,504	5,031	3,016	2,369	34,500	(S)	-	-	1	5	5	4	3079
6,531	3,380	3,184	891	15,935	74	9	131	2	3	35	2	31
2,327	1,119	1,496	314	4,503	68	(S)	(S)	3	4	4	3	3111
2,573	1,258	(S)	27	384	-	-	-	(X)	1	-	29	3121
201	86	220	38	781	-	-	-	27	-	23	17	3131
837	536	1,005	378	7,648	6	(S)	(S)	4	3	11	3	314
802	511	945	357	7,227	(S)	(S)	(S)	5	4	12	3	3141
(S)	(S)	60	21	421	(S)	(S)	(S)	-	1	-	10	3142
(S)	(S)	(S)	5	124	-	-	-	-	-	-	16	3151
(S)	(S)	74	47	848	-	-	-	-	1	-	14	3161
54	51	284	70	1,382	-	-	-	-	1	20	7	317
(S)	(S)	212	35	746	-	-	-	-	-	-	9	3171
(S)	(S)	72	34	636	-	-	-	-	1	-	8	3172
(S)	(S)	82	13	265	-	-	-	-	-	-	23	3199

TABLE 7. Consumption for Heat and Power,

Code	Industry group and industry	Total cost of purchased fuels and electric energy	Purchased fuels						
			Total cost	Bituminous coal, lignite and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity	Cost	Quantity	Cost	Quantity	Cost
		($1,000)	($1,000)	(1,000 tons)	($1,000)	(1,000 tons)	($1,000)	(1,000 barrels)	($1,000)
		A	B	C	D	E	F	G	H
32	Stone, clay and glass products	555,671	388,355	11,487	83,248	156	3,166	13,606	46,345
3211	Flat glass	23,576	16,698	337	2,334	-	-	(S)	(S)
322	Pressed and blown glassware	86,185	63,409	(S)	(S)	(S)	(S)	1,857	5,623
3221	Glass containers	55,760	41,048	71	548	-	-	1,527	4,523
3229	Pressed and blown glass, n.e.c.	30,425	22,361	(S)	(S)	(S)	(S)	329	1,100
3231	Products of purchased glass	8,052	3,682	93	683	-	-	89	300
3241	Cement, hydraulic	172,006	117,954	7,631	54,205	38	383	3,053	8,381
325	Structural clay products	77,871	62,537	1,033	6,853	19	418	1,277	4,712
3251	Brick and structural tile	43,705	35,074	(S)	(S)	(S)	(S)	755	2,655
3253	Ceramic wall and floor tile	4,826	3,411	(S)	(S)	-	-	71	278
3255	Clay refractories	14,365	11,405	(S)	(S)	(S)	(S)	174	755
3259	Structural clay products, n.e.c.	14,975	12,647	303	2,051	-	-	277	1,024
326	Pottery and related products	13,818	9,779	124	929	-	-	332	1,231
3261	Vitreous plumbing fixtures	4,496	3,219	45	382	-	-	147	476
3262	Vitreous china food utensils	1,611	1,208	(S)	(S)	-	-	(S)	(S)
3263	Earthenware food utensils	2,101	1,546	(S)	(S)	-	-	(S)	(S)
3264	Porcelain electrical supplies	2,997	1,895	36	299	-	-	83	297
3269	Pottery products, n.e.c.	2,613	1,911	-	-	-	-	(S)	(S)
327	Concrete and plaster products	106,252	75,254	(S)	(S)	(S)	(S)	3,834	15,037
3271	Concrete block and brick	14,425	9,453	(S)	(S)	-	-	756	2,853
3272	Concrete products	14,082	8,804	52	333	-	-	443	2,022
3273	Ready-mixed concrete	38,467	28,436	(S)	(S)	-	-	1,113	5,669
3274	Lime	21,306	17,296	(S)	(S)	(S)	(S)	318	950
3275	Gypsum products	17,972	11,265	117	948	-	-	1,203	3,543
3281	Cut stone and stone products	4,999	1,708	18	183	(S)	(S)	177	884
329	Nonmetallic minerals, n.e.c.	62,912	37,334	514	4,076	98	2,327	2,921	9,927
3291	Abrasive products	9,590	4,366	108	1,108	-	-	288	1,131
3292	Asbestos products	8,765	3,799	(S)	(S)	(S)	(S)	(S)	(S)
3293	Gaskets and insulations	4,001	2,231	32	288	-	-	407	1,245
3295	Minerals: Ground or treated	15,902	10,051	(S)	(S)	-	-	1,070	3,805
3296	Mineral wool	16,660	11,708	(S)	(S)	(S)	(S)	288	946
3297	Nonclay refractories	6,800	4,443	(S)	(S)	-	-	297	1,081
3299	Nonmetallic minerals, n.e.c.	1,194	736	(S)	(S)	-	-	(S)	(S)
33	Primary metal industries	1,379,781	879,794	13,511	84,476	16,515	277,889	46,182	155,884
331	Steel rolling and finishing	889,338	633,319	8,839	57,211	14,530	223,838	35,291	117,965
3312	Blast furnaces and steel mills	809,433	597,236	6,899	45,185	14,011	216,470	34,394	114,818
3313	Electrometallurgical products	48,165	20,706	1,800	10,975	515	7,264	176	692
3315	Steel wire drawing	9,918	4,866	41	357	(S)	(S)	363	1,211
3316	Cold finishing of steel shapes	8,998	4,575	50	332	(S)	(S)	186	608
3317	Steel pipe and tubes	12,824	5,936	49	362	-	-	171	636
332	Iron and steel foundries	130,645	84,109	844	6,629	1,531	44,916	1,613	6,801
3321	Gray iron foundries	78,654	57,209	522	3,278	1,326	37,989	611	2,817
3322	Malleable iron foundries	19,092	13,826	217	2,395	188	6,467	239	963
3323	Steel foundries	32,899	13,074	105	956	17	460	762	3,021
333	Primary nonferrous metal	177,334	65,709	2,554	12,026	368	6,846	2,519	6,690
3331	Primary copper	27,404	19,627	181	1,745	103	2,232	2,123	5,258
3332	Primary lead	5,698	4,909	(S)	(S)	(S)	(S)	(S)	(S)
3333	Primary zinc	18,758	11,183	404	3,277	129	1,626	17	65
3334	Primary aluminum	116,390	27,222	(S)	(S)	-	-	(S)	(S)
3339	Primary nonferrous metals, n.e.c.	9,084	2,768	(S)	(S)	(S)	(S)	121	463
3341	Secondary nonferrous metals	11,612	8,675	26	154	33	821	794	2,895
335	Nonferrous rolling and drawing	96,420	41,585	665	4,513	25	1,019	2,839	8,736
3351	Copper rolling and drawing	25,536	11,301	260	1,674	(S)	(S)	1,156	3,355
3352	Aluminum rolling and drawing	38,791	19,047	245	1,601	(S)	(S)	601	2,211
3356	Rolling and drawing, n.e.c.	10,363	4,656	38	233	3	121	117	436
3357	Nonferrous wire drawing, etc.	21,730	6,581	122	1,005	-	-	964	2,734
336	Nonferrous foundries	28,293	15,410	53	274	15	265	550	2,471
3361	Aluminum castings	15,327	8,706	32	173	(S)	(S)	231	1,083
3362	Brass, bronze, copper castings	6,558	3,589	(S)	(S)	(S)	(S)	204	931
3369	Nonferrous castings, n.e.c.	6,408	3,115	19	91	(S)	(S)	116	457
339	Primary metal industries, n.e.c.	46,139	30,987	530	3,669	15	184	2,576	10,326
3391	Iron and steel forgings	31,421	23,644	488	3,447	(S)	(S)	2,440	9,832
3392	Nonferrous forgings	4,545	2,077	(S)	(S)	-	-	78	257
3399	Primary metal industries, n.e.c.	10,173	5,266	(S)	(S)	(S)	(S)	(S)	(S)

See footnotes at end of table.

by Industry Groups and Industries: 1962--Continued

Purchased fuels--Continued			Electric energy					Standard error of estimate (percent) for columns--1				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood, and purchased steam)	Purchased		Generated	Generated and sold						
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	Quantity (million kw.-hrs.)	Cost ($1,000)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N	O	P					
559,455	217,031	38,565	15,538	167,316	1,876	77	963	1	4	1	1	32
32,728	13,649	465	828	6,878	170	-	-	1	-	1	1	3211
120,308	55,200	1,735	2,540	22,776	17	-	-	-	1	1	1	322
80,774	35,699	278	1,676	14,712	17	-	-	1	1	1	1	3221
39,533	19,501	1,457	863	8,064	-	-	-	-	1	1	1	3229
3,797	1,997	702	295	4,370	18	-	-	1	17	17	11	3231
185,494	54,758	227	5,913	54,052	1,522	29	458	1	1	1	1	3241
112,698	46,774	3,780	1,033	15,334	(S)	(S)	(S)	7	5	3	3	325
64,245	25,144	3,156	568	8,631	(S)	-	-	-	8	6	5	3251
5,672	2,929	181	99	1,415	(S)	-	-	-	1	9	14	3253
20,298	9,494	78	215	2,960	(S)	(S)	(S)	-	8	5	2	3255
22,484	9,207	365	151	2,328	(S)	-	-	15	7	3	3	3259
12,596	7,072	547	316	4,039	16	(S)	(S)	1	9	4	3	326
4,285	2,088	273	108	1,277	(S)	(S)	(S)	1	1	1	1	3261
1,729	1,060	(S)	30	403	(S)	-	-	-	-	1	1	3262
2,260	1,275	(S)	41	555	-	-	-	-	-	1	1	3263
2,060	1,246	53	94	1,102	6	-	-	1	1	1	1	3264
2,262	1,403	219	43	702	-	-	-	(X)	-	19	17	3269
48,829	19,436	27,636	2,061	30,998	(S)	-	-	-	10	3	4	327
5,646	2,633	3,420	268	4,972	-	-	-	-	17	10	8	3271
4,744	2,480	3,969	243	5,278	(S)	-	-	15	8	8	7	3272
5,300	2,571	19,914	626	10,031	(S)	-	-	-	26	14	10	3273
15,154	5,074	237	355	4,010	-	-	-	-	5	6	5	3274
17,984	6,678	96	570	6,707	(S)	-	-	1	1	1	1	3275
132	112	502	195	3,291	42	(S)	(S)	16	25	27	9	3281
42,873	18,033	2,971	2,357	25,578	82	7	64	14	4	3	3	329
4,476	1,792	335	684	5,224	34	-	-	1	15	13	5	3291
2,960	1,427	271	438	4,966	30	(S)	(S)	-	-	1	1	3292
652	441	257	111	1,770	17	(S)	(S)	4	6	14	11	3293
8,880	3,577	1,592	375	5,851	-	-	-	-	9	11	14	3295
19,593	7,604	210	516	4,952	(S)	-	-	-	1	3	3	3296
6,076	3,070	(S)	207	2,357	-	-	-	-	1	1	1	3297
234	122	241	27	458	-	-	-	1	-	1	26	3299
937,321	333,091	28,454	71,251	499,987	25,690	3,220	35,402	1	1	1	1	33
616,192	216,691	17,614	29,345	256,019	14,280	2,399	26,392	1	1	1	1	331
595,441	205,067	15,696	22,595	212,197	11,081	(S)	(S)	1	1	1	1	3312
1,946	685	1,090	5,432	27,459	3,187	(S)	(S)	1	1	1	1	3313
4,968	2,914	283	407	5,052	(S)	-	-	1	1	1	2	3315
5,298	3,393	239	357	4,423	9	-	-	1	2	7	5	3316
8,539	4,632	306	553	6,888	(S)	-	-	1	22	5	12	3317
39,499	21,082	4,681	3,593	46,536	35	-	-	11	5	3	3	332
18,131	9,651	3,474	1,563	21,445	16	-	-	20	10	5	5	3321
7,058	3,483	518	441	5,266	11	-	-	11	1	1	4	3322
14,309	7,948	689	1,589	19,825	9	-	-	1	5	2	4	3323
180,660	39,604	543	30,467	111,625	11,137	729	8,232	1	1	1	1	333
32,774	10,231	161	969	7,777	378	191	2,875	1	1	1	1	3331
4,145	1,485	(S)	95	789	(S)	(S)	(S)	-	-	1	1	3332
26,541	6,195	(S)	1,364	7,575	649	(S)	(S)	1	1	1	1	3333
108,615	19,632	280	26,883	89,168	10,104	(S)	(S)	-	-	1	1	3334
8,584	2,061	46	1,156	6,316	(S)	-	-	-	1	1	1	3339
7,820	3,951	854	193	2,937	-	-	-	1	9	6	6	3341
47,811	25,298	2,019	5,586	54,835	230	(S)	(S)	1	1	1	1	335
8,887	5,861	(S)	1,277	14,235	220	(S)	(S)	1	1	1	1	3351
28,903	13,599	(S)	2,496	19,744	7	-	-	1	1	1	2	3352
6,380	3,528	338	593	5,707	(S)	-	-	1	5	4	3	3356
3,640	2,310	532	1,221	15,149	(S)	-	-	1	1	1	1	3357
17,689	11,025	1,375	918	12,883	-	-	-	1	7	4	3	336
10,935	6,564	(S)	538	6,621	-	-	-	1	7	5	4	3361
3,319	2,258	239	172	2,969	-	-	-	-	15	11	7	3362
3,435	2,203	268	208	3,293	-	-	-	1	7	7	6	3369
27,650	15,440	1,368	1,148	15,152	8	(S)	(S)	15	14	7	9	339
17,853	9,758	(S)	554	7,777	8	(S)	(S)	16	15	7	7	3391
2,063	1,447	(S)	209	2,468	-	-	-	-	1	10	21	3392
7,735	4,235	528	386	4,907	-	-	-	-	-	22	21	3399

TABLE 7. Consumption for Heat and Power,

Code	Industry group and industry	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels							
			Total cost ($1,000)	Bituminous coal, lignite and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 barrels)	Cost ($1,000)
		A	B	C	D	E	F	G	H
34	Fabricated metal products	247,691	109,879	1,045	8,026	125	4,017	7,104	25,621
3411	Metal cans	15,044	7,267	67	563	-	-	262	844
342	Cutlery, hand tools, hardware	27,525	12,192	264	2,206	5	148	1,035	3,687
3421	Cutlery	2,295	1,069	(S)	(S)	(S)	(S)	173	541
3423	Edge tools	7,860	3,942	50	328	(S)	(S)	329	1,290
3425	Hand saws and saw blades	1,334	479	3	34	-	-	31	117
3429	Hardware, n.e.c.	16,036	6,702	182	1,509	4	132	501	1,739
343	Plumbing and nonelectrical heating	18,939	10,717	110	1,088	65	2,230	411	1,615
3431	Plumbing fixtures	7,128	4,981	35	400	43	1,615	57	231
3432	Plumbing fittings, brass goods	3,202	1,318	(S)	(S)	-	-	56	196
3433	Nonelectric heating equipment	8,609	4,418	47	434	22	615	299	1,188
344	Structural metal products	60,507	25,940	192	1,205	15	430	1,353	5,498
3441	Fabricated structural steel	13,706	5,404	26	201	7	172	297	1,195
3442	Metal doors, sash, and trim	9,629	4,044	26	163	-	-	262	1,037
3443	Boiler shop products	17,790	8,003	99	633	5	159	438	1,762
3444	Sheet metal work	11,361	5,247	18	146	-	-	187	805
3449	Miscellaneous metal work, n.e.c.	8,021	3,242	(S)	(S)	3	99	168	699
345	Screw machine products and bolts	20,088	7,190	71	522	(S)	(S)	597	2,324
3451	Screw machine products	6,087	1,479	(S)	(S)	-	-	182	856
3452	Bolts, nuts, washers, and rivets	14,001	5,711	69	508	(S)	(S)	415	1,468
3461	Metal stampings	29,331	12,495	134	976	(S)	(S)	1,368	3,269
347	Metal services, n.e.c.	27,785	12,518	42	266	-	-	730	3,023
3471	Plating and polishing	20,147	8,070	(S)	(S)	-	-	526	2,098
3479	Metal coating, engraving, etc.	7,638	4,448	(S)	(S)	-	-	204	925
3481	Fabricated wire products, n.e.c.	11,578	4,980	23	203	(S)	(S)	286	1,142
349	Fabricated metal products, n.e.c.	36,894	16,580	143	997	39	1,190	1,063	4,219
3491	Metal barrels, drums and pails	4,096	2,077	(S)	(S)	-	-	(S)	(S)
3492	Safes and vaults	467	216	(S)	(S)	-	-	(S)	(S)
3493	Steel springs	3,081	1,975	(S)	(S)	-	-	38	120
3494	Valves and pipe fittings	17,843	8,220	115	793	39	1,190	609	2,367
3496	Collapsible tubes	632	194	-	-	-	-	(S)	(S)
3498	Fabricated pipe and fittings	3,126	1,352	(S)	(S)	-	-	64	274
3499	Fabricated metal products, n.e.c.	5,759	2,121	10	89	-	-	120	547
35	Machinery, except electrical	254,685	106,862	2,283	17,895	185	5,726	7,705	26,969
351	Engines and turbines	19,391	10,577	407	3,441	(S)	(S)	1,343	3,632
3511	Steam engines and turbines	9,714	6,423	262	2,307	(S)	(S)	1,050	2,463
3519	Internal combustion engines	9,677	4,154	145	1,134	5	170	292	1,169
3522	Farm machinery and equipment	23,100	13,576	437	2,985	92	2,839	316	1,394
353	Construction and like equipment	42,246	16,223	541	4,044	17	545	849	3,115
3531	Construction machinery	22,940	9,213	425	2,969	10	311	476	1,911
3532	Mining machinery and equipment	5,068	1,662	41	394	4	147	(S)	(S)
3533	Oil field machines and equipment	5,748	2,063	(S)	(S)	-	-	(S)	(S)
3534	Elevators and moving stairways	1,754	669	(S)	(S)	(S)	(S)	86	230
3535	Conveyors	3,054	1,238	22	215	(S)	(S)	61	243
3536	Hoists, cranes, and monorails	1,375	543	17	148	-	-	29	111
3537	Industrial trucks and tractors	2,307	835	23	185	(S)	(S)	41	154
354	Metalworking machinery	44,740	17,040	168	1,483	10	304	1,328	5,207
3541	Metal-cutting machine tools	9,706	3,680	71	595	5	164	334	1,190
3542	Metal-forming machine tools	4,046	1,612	(S)	(S)	(S)	(S)	196	835
3544	Special dies and tools	15,412	5,734	(S)	(S)	(S)	(S)	(S)	(S)
3545	Machine tool accessories	9,005	2,810	11	128	-	-	333	1,180
3548	Metalworking machinery, n.e.c.	6,571	3,204	39	317	(S)	(S)	(S)	(S)
355	Special industry machinery	27,246	11,466	100	1,063	21	664	1,198	4,427
3551	Food products machinery	4,835	1,896	(S)	(S)	(S)	(S)	133	550
3552	Textile machinery	5,716	2,750	52	571	4	120	448	1,419
3553	Woodworking machinery	1,816	703	(S)	(S)	(S)	(S)	28	106
3554	Paper industries machinery	3,263	1,404	(S)	(S)	(S)	(S)	137	546
3555	Printing trades machinery	3,103	1,134	(S)	(S)	(S)	(S)	166	671
3559	Special industry machinery, n.e.c.	8,513	3,579	13	125	7	216	316	1,135
356	General industrial machinery	42,394	17,661	280	1,986	29	904	1,212	4,177
3561	Pumps and compressors	10,612	4,961	109	818	18	626	299	1,082
3562	Ball and roller bearings	12,100	4,720	89	491	-	-	408	1,168
3564	Blowers and fans	2,226	946	(S)	(S)	(S)	(S)	74	260
3565	Industrial patterns	1,240	486	(S)	(S)	-	-	(S)	(S)
3566	Power transmission equipment	9,144	3,859	53	426	9	255	227	845
3567	Industrial furnaces and ovens	1,751	713	(S)	(S)	-	-	(S)	(S)
3569	General industry machinery, n.e.c.	5,321	1,976	(S)	(S)	(S)	(S)	154	619
357	Office machines, n.e.c.	15,254	5,285	166	1,386	-	-	645	1,846
3571	Computing and related machines	10,281	3,223	107	908	-	-	458	1,268
3572	Typewriters	2,319	1,054	(S)	(S)	-	-	73	215
3576	Scales and balances	577	224	(S)	(S)	-	-	21	82
3579	Office machines, n.e.c.	2,077	784	26	211	-	-	92	281

See footnotes at end of table.

by Industry Groups and Industries: 1962 --Continued

Purchased fuels--Continued			Electric energy					Standard error of estimate (percent) for columns--1				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood, and purchased steam)	Purchased		Generated	Generated and sold						
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	Quantity (million kw.-hrs.)	Cost ($1,000)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N	O	P					
92,602	55,416	16,799	8,881	137,812	110	(S)	(S)	4	3	16	1	34
8,986	5,432	428	668	7,777	(S)	-	-	1	1	1	1	3411
7,880	5,114	1,037	1,036	15,333	62	-	-	11	6	5	3	342
187	177	(S)	70	1,226	22	-	-	-	9	17	7	3421
2,909	1,995	328	233	3,918	6	-	-	9	16	12	8	3423
291	273	55	52	855	-	-	-	1	1	1	5	3425
4,492	2,669	653	682	9,334	35	-	-	2	3	4	4	3429
8,740	5,248	536	550	8,222	(S)	(S)	(S)	12	8	7	5	343
4,594	2,560	175	167	2,147	(S)	(S)	(S)	1	4	13	13	3431
1,240	768	100	126	1,884	-	-	-	-	1	9	8	3432
2,906	1,920	261	258	4,191	-	-	-	5	11	5	5	3433
21,267	11,778	7,029	2,161	34,567	(S)	-	-	2	4	4	2	344
3,527	2,109	1,727	527	8,302	(S)	-	-	5	5	9	4	3441
3,003	1,698	1,146	371	5,585	-	-	-	1	10	5	3	3442
7,364	4,017	1,432	676	9,787	(S)	-	-	2	5	10	4	3443
4,104	2,345	1,951	299	6,114	(S)	-	-	1	9	7	6	3444
3,271	1,609	773	288	4,779	(S)	-	-	-	14	7	5	3449
5,491	3,617	712	822	12,898	(S)	-	-	1	11	4	6	345
427	340	269	262	4,608	-	-	-	-	29	24	15	3451
5,064	3,277	443	560	8,290	(S)	-	-	1	5	4	3	3452
9,609	6,206	2,042	1,067	16,836	21	-	-	1	2	2	2	3461
12,486	6,862	2,367	837	15,267	(S)	-	-	19	12	10	5	347
6,901	4,280	1,584	661	12,077	(S)	-	-	-	12	13	6	3471
5,585	2,582	783	176	3,190	(S)	-	-	-	26	14	9	3479
4,064	2,692	941	384	6,598	-	-	-	1	8	17	8	3481
14,080	8,467	1,707	1,356	20,314	(S)	-	-	1	13	4	6	349
1,884	1,302	172	120	2,019	-	-	-	-	-	13	12	3491
170	121	(S)	18	251	-	-	-	-	-	1	4	3492
2,931	1,795	55	84	1,106	-	-	-	-	1	5	6	3493
6,669	3,458	412	637	9,623	(S)	-	-	1	21	8	7	3494
173	142	(S)	32	438	-	-	-	(X)	-	1	1	3496
999	735	316	87	1,774	-	-	-	-	15	14	9	3498
1,060	768	717	207	3,638	(S)	-	-	1	9	9	6	3499
75,554	42,246	14,026	10,330	147,823	859	268	3,110	1	2	4	1	35
3,346	2,232	(S)	745	8,814	443	(S)	(S)	1	1	-	1	351
1,009	780	(S)	315	3,291	377	(S)	(S)	1	1	-	1	3511
2,337	1,452	229	430	5,523	66	(S)	(S)	1	1	1	1	3519
10,871	4,764	1,594	682	9,524	255	(S)	(S)	1	9	3	5	3522
14,268	6,743	1,776	2,025	26,023	18	-	-	1	6	2	6	353
5,516	3,067	955	1,132	13,727	7	-	-	1	3	3	2	3531
1,196	634	114	(S)	(S)	6	-	-	1	-	11	-	3532
5,618	1,733	(S)	320	3,685	-	-	-	-	-	1	3	3533
(S)	(S)	71	60	1,085	(S)	-	-	-	1	-	10	3534
757	496	(S)	103	1,816	-	-	-	1	4	6	4	3535
316	232	52	55	832	-	-	-	1	1	4	7	3536
552	340	(S)	106	1,472	-	-	-	5	13	12	9	3537
14,022	7,822	2,224	1,707	27,700	16	-	-	2	8	17	4	354
1,378	1,054	677	400	6,026	8	-	-	1	8	20	4	3541
(S)	(S)	225	164	2,434	-	-	-	-	10	-	7	3542
(S)	(S)	(S)	499	9,678	-	-	-	-	-	-	11	3544
1,492	1,057	445	393	6,195	(S)	-	-	23	7	7	5	3545
3,865	2,186	(S)	251	3,367	(S)	-	-	1	-	1	3	3548
5,273	3,525	1,787	992	15,780	32	-	-	7	7	5	3	355
829	638	527	155	2,939	(S)	-	-	-	7	13	7	3551
642	398	242	206	2,966	21	-	-	4	13	8	7	3552
486	307	61	90	1,113	-	-	-	-	1	13	16	3553
650	465	182	136	1,859	(S)	-	-	-	29	7	10	3554
433	316	73	109	1,969	-	-	-	-	24	8	14	3555
2,232	1,401	702	295	4,934	10	-	-	8	5	9	5	3559
14,139	9,110	1,484	1,857	24,733	24	(S)	(S)	1	2	3	1	356
3,544	2,182	253	410	5,651	22	(S)	(S)	1	1	8	3	3561
4,850	3,021	40	673	7,380	-	-	-	1	1	1	1	3562
646	456	172	76	1,280	(S)	-	-	-	1	13	8	3564
214	156	258	34	754	-	-	-	-	-	26	17	3565
3,219	2,150	183	377	5,285	(S)	-	-	1	6	1	2	3566
437	335	226	58	1,038	-	-	-	-	-	9	12	3567
1,230	810	352	229	3,345	(S)	-	-	-	13	22	5	3569
2,719	1,580	473	772	9,969	69	-	-	1	2	1	1	357
1,303	726	321	569	7,058	69	-	-	1	1	1	1	3571
1,059	613	(S)	99	1,265	-	-	-	-	1	1	1	3572
61	45	(S)	17	353	(S)	-	-	-	1	1	1	3576
296	196	96	87	1,293	-	-	-	5	14	1	4	3579

TABLE 7. Consumption for Heat and Power,

Code	Industry group and industry	Total cost of purchased fuels and electric energy	Purchased fuels						
			Total cost	Bituminous coal, lignite and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity	Cost	Quantity	Cost	Quantity	Cost
		($1,000)	($1,000)	(1,000 tons)	($1,000)	(1,000 tons)	($1,000)	(1,000 barrels)	($1,000)
		A	B	C	D	E	F	G	H
35	Machinery, except electrical—Con.								
358	Service industry machines	17,344	7,099	151	1,220	(S)	(S)	418	1,555
3581	Automatic vending machines	1,993	946	21	220	(S)	(S)	24	106
3582	Commercial laundry equipment	799	337	(S)	(S)	-	-	(S)	(S)
3585	Refrigeration machinery	11,681	4,613	114	857	(S)	(S)	234	818
3586	Measuring and dispensing pumps	847	341	(S)	(S)	-	-	46	160
3589	Service industry machines, n.e.c.	1,979	845	4	40	-	-	81	341
3599	Machine shops	22,970	7,935	33	287	6	146	398	1,616
36	Electrical machinery	207,808	70,151	1,463	10,669	33	829	5,152	17,623
361	Electric distribution products	20,353	5,975	146	1,085	(S)	(S)	510	1,741
3611	Electric measuring instruments	5,453	1,506	(S)	(S)	(S)	(S)	168	601
3612	Transformers	8,224	2,265	118	882	-	-	95	305
3613	Switchgear and switchboards	6,676	2,204	19	147	(S)	(S)	247	835
362	Electric industrial apparatus	34,527	12,065	205	1,566	(S)	(S)	412	1,570
3621	Motors and generators	15,475	5,605	131	997	(S)	(S)	181	669
3622	Industrial controls	4,243	1,285	(S)	(S)	-	-	93	388
3623	Welding apparatus	2,323	963	11	89	-	-	32	128
3624	Carbon and graphite products	9,731	3,452	49	343	(S)	(S)	(S)	(S)
3629	Electric industrial goods, n.e.c.	2,755	760	(S)	(S)	-	-	80	290
363	Household appliances	34,415	14,716	466	3,164	5	149	714	2,402
3631	Household cooking equipment	4,418	2,104	48	377	5	149	86	299
3632	Household refrigerators	11,833	4,871	273	1,838	-	-	106	288
3633	Household laundry equipment	6,280	2,757	85	591	-	-	69	266
3634	Electric housewares and fans	5,251	1,969	(S)	(S)	-	-	233	848
3635	Household vacuum cleaners	1,013	355	(S)	(S)	-	-	(S)	(S)
3636	Sewing machines	1,302	457	(S)	(S)	-	-	109	297
3639	Household appliances, n.e.c.	4,318	2,203	25	143	-	-	75	296
364	Lighting and wiring devices	24,005	9,980	128	908	(S)	(S)	806	2,952
3641	Electric lamps	4,575	1,805	(S)	(S)	-	-	96	260
3642	Lighting fixtures	9,001	3,781	84	581	(S)	(S)	202	768
3643	Current carrying devices	5,295	1,856	(S)	(S)	-	-	293	1,104
3644	Noncurrent carrying devices	5,134	2,538	32	253	(S)	(S)	214	820
365	Radio, TV, receiving equipment	8,615	3,036	57	402	-	-	381	1,323
3651	Radio and TV receiving sets	7,034	2,312	52	360	-	-	273	966
3652	Phonograph records	1,581	724	(S)	(S)	-	-	107	357
366	Communication equipment	32,450	9,106	234	1,741	(S)	(S)	1,173	3,638
3661	Telephone; telegraph apparatus	9,322	3,211	189	1,363	(S)	(S)	233	729
3662	Radio, TV communication equipment	23,128	5,895	45	378	-	-	939	2,909
367	Electronic components	36,566	9,434	90	712	(S)	(S)	830	2,928
3671	Electron tubes, receiving type	3,517	896	(S)	(S)	-	-	53	165
3672	Cathode ray picture tubes	2,300	729	(S)	(S)	-	-	31	118
3673	Electron tubes, transmitting	4,309	1,057	(S)	(S)	-	-	49	157
3679	Electronic components, n.e.c.	26,440	6,752	52	369	(S)	(S)	697	2,488
369	Electrical products, nec	16,877	5,839	137	1,091	(S)	(S)	328	1,069
3691	Storage batteries	7,143	2,302	12	92	(S)	(S)	170	496
3692	Primary batteries, dry and wet	1,273	505	18	180	-	-	13	57
3693	X-ray and therapeutic apparatus	675	181	(S)	(S)	-	-	(S)	(S)
3694	Engine electrical equipment	6,082	2,262	100	754	-	-	77	265
3699	Electrical products, n.e.c.	1,704	589	(S)	(S)	-	-	57	221
37	Transportation equipment	306,038	112,939	3,863	29,824	163	4,840	7,003	22,542
371	Motor vehicles and equipment	187,563	75,726	3,099	24,409	154	4,571	2,682	8,872
3713	Truck and bus bodies	3,913	1,515	19	177	-	-	72	324
3715	Truck trailers	3,324	1,309	10	90	(S)	(S)	(S)	(S)
3717	Motor vehicles and parts	180,326	72,902	3,069	24,142	(S)	(S)	(S)	(S)
372	Aircraft and parts	85,130	23,239	387	2,762	(S)	(S)	2,863	8,757
3721	Aircraft	31,477	7,969	128	884	-	-	909	2,633
3722	Aircraft engines and parts	27,157	7,437	162	1,178	-	-	1,201	3,716
3723	Aircraft propellers and parts	1,650	415	-	-	-	-	(S)	(S)
3729	Aircraft equipment, n.e.c.	24,846	7,418	97	700	(S)	(S)	(S)	(S)
373	Ships and boats	20,065	7,184	81	715	3	65	962	2,934
3731	Ship building and repairing	17,067	6,021	62	604	3	65	906	2,655
3732	Boat building and repairing	2,998	1,163	19	111	-	-	55	279
374	Railroad equipment	9,131	4,895	279	1,757	(S)	(S)	359	1,347
3741	Locomotives and parts	2,562	1,284	141	811	-	-	108	287
3742	Railroad and street cars	6,569	3,611	137	946	(S)	(S)	251	1,060
3751	Motorcycles, bicycles, and parts	1,374	617	(S)	(S)	-	-	29	117
379	Transportation equipment, n.e.c.	2,775	1,278	(S)	(S)	-	-	109	515
3791	Trailer coaches	1,813	894	(S)	(S)	-	-	(S)	(S)
3799	Transportation equipment, n.e.c.	962	384	(S)	(S)	-	-	14	71

See footnotes at end of table.

by Industry Groups and Industries: 1962--Continued

Purchased fuels--Continued			Electric energy					Standard error of estimate (percent) for columns--[1]				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood, and purchased steam)	Purchased		Generated	Generated and sold						
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	Quantity (million kw.-hrs.)	Cost ($1,000)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N	O	P					
6,314	3,509	(S)	724	10,245	(S)	(S)	(S)	3	5	5	3	358
628	401	(S)	68	1,047	-	-	-	1	1	22	5	3581
(S)	(S)	(S)	27	462	(S)	(S)	(S)	-	-	-	15	3582
4,854	2,515	(S)	539	7,068	-	-	-	5	5	5	3	3585
235	130	(S)	31	506	-	-	-	-	1	1	1	3586
459	365	99	58	1,134	-	-	-	25	15	11	14	3589
4,602	2,961	2,925	826	15,035	(S)	-	-	21	9	8	4	3599
53,837	31,662	9,368	11,699	137,657	306	81	1,670	1	3	2	1	36
4,095	2,492	646	1,204	14,378	31	(S)	(S)	1	6	7	2	361
947	614	232	288	3,947	-	-	-	-	17	26	6	3611
1,826	962	116	597	5,959	(S)	(S)	(S)	1	1	3	3	3612
1,322	916	298	319	4,472	(S)	-	-	1	3	4	2	3613
11,170	6,368	2,229	2,328	22,462	46	(S)	(S)	1	6	1	1	362
3,609	2,156	1,782	832	9,870	45	(S)	(S)	1	8	2	2	3621
1,117	706	121	216	2,958	-	-	-	-	10	3	6	3622
1,008	642	104	88	1,360	(S)	-	-	1	8	2	8	3623
4,972	2,595	88	1,035	6,279	-	-	-	1	-	1	1	3624
464	269	134	156	1,995	-	-	-	-	21	1	9	3629
13,970	7,742	1,259	1,718	19,699	(S)	-	-	1	4	3	2	363
1,931	1,076	203	237	2,314	(S)	-	-	1	1	1	1	3631
3 786	2,111	634	690	6,962	-	-	-	1	1	1	1	3632
3,587	1,823	77	308	3,523	(S)	-	-	1	1	1	1	3633
1,314	830	134	216	3,282	-	-	-	-	12	8	11	3634
349	199	(S)	49	658	-	-	-	-	-	1	1	3635
(S)	(S)	(S)	63	845	-	-	-	-	1	-	20	3636
2,895	1,592	172	154	2,115	-	-	-	1	1	13	12	3639
7,088	4,606	1,231	978	14,025	-	-	-	1	5	3	4	364
2,290	1,445	85	232	2,770	-	-	-	-	1	1	1	3641
2,731	1,754	669	355	5,220	-	-	-	1	8	8	6	3642
618	413	280	217	3,439	-	-	-	-	5	9	8	3643
1,448	994	197	174	2,596	-	-	-	1	16	3	10	3644
(S)	(S)	332	418	5,579	(S)	-	-	1	8	-	6	365
(S)	(S)	283	357	4,722	(S)	-	-	1	10	-	7	3651
547	276	(S)	60	857	-	-	-	-	1	1	5	3652
4,693	2,831	891	1,971	23,344	205	(S)	(S)	1	3	5	2	366
2,110	928	186	531	6,111	152	(S)	(S)	1	1	1	3	3661
2,583	1,903	705	1,440	17,233	53	(S)	(S)	1	3	7	2	3662
6,269	3,879	1,913	2,169	27,132	(S)	-	-	1	16	3	4	367
623	385	209	219	2,621	-	-	-	-	1	21	3	3671
719	459	117	138	1,571	-	-	-	-	1	9	8	3672
348	234	495	276	3,252	-	-	-	-	1	1	1	3673
4,578	2,801	1,092	1,536	19,688	(S)	-	-	1	19	3	5	3679
4,740	2,765	867	914	11,038	19	(S)	(S)	1	6	13	3	369
1,799	1,025	642	413	4,841	(S)	(S)	(S)	1	1	9	3	3691
377	235	(S)	57	768	-	-	-	1	1	1	3	3692
58	49	52	30	494	-	-	-	-	-	1	8	3693
2,096	1,217	(S)	345	3,820	(S)	(S)	(S)	1	1	30	8	3694
410	239	114	68	1,115	-	-	-	-	27	1	14	3699
73,284	39,085	16,648	17,490	193,099	336	61	1,522	1	1	2	1	37
47,260	25,655	12,219	10,195	111,837	195	61	1,520	1	2	1	1	371
1,115	741	273	119	2,398	-	-	-	1	19	16	8	3713
681	392	207	179	2,015	-	-	-	1	-	20	10	3715
45,464	24,522	11,739	9,898	107,424	195	61	1,520	1	-	1	1	3717
19,452	9,223	2,410	5,762	61,891	23	-	-	1	1	7	1	372
10,462	3,783	669	2,475	23,508	19	-	-	1	1	1	1	3721
3,382	1,880	663	1,824	19,720	(S)	-	-	1	1	1	1	3722
(S)	(S)	(S)	101	1,235	(S)	-	-	(X)	-	-	1	3723
(S)	(S)	1,076	1,362	17,428	-	-	-	1	-	-	3	3729
2,449	1,973	1,497	1,043	12,881	17	-	-	3	2	3	2	373
1,974	1,682	1,015	949	11,046	17	-	-	1	2	3	1	3731
475	291	482	94	1,835	-	-	-	18	7	3	7	3732
2,868	1,489	185	352	4,236	101	(S)	(S)	1	1	1	1	374
263	185	(S)	120	1,278	83	(S)	(S)	1	1	1	1	3741
2,605	1,304	184	232	2,958	18	-	-	1	1	1	1	3742
721	417	(S)	65	757	-	-	-	-	1	1	5	3751
535	328	289	73	1,497	-	-	-	-	29	18	13	379
372	213	219	45	919	-	-	-	-	-	24	14	3791
163	115	70	29	578	-	-	-	-	14	26	23	3799

TABLE 7. Consumption for Heat and Power,

Code	Industry group and industry	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels							
			Total cost ($1,000)	Bituminous coal, lignite and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 barrels)	Cost ($1,000)
		A	B	C	D	E	F	G	H
38	Instruments and related products	43,082	17,783	571	5,001	(S)	(S)	1,476	5,031
3811	Scientific instruments	8,330	2,079	7	66	-	-	234	798
382	Mechanical measuring devices	10,533	3,369	16	175	-	-	404	1,371
3821	Mechanical measuring devices	7,173	2,252	15	162	-	-	303	1,011
3822	Automatic temperature controls	3,360	1,117	(S)	(S)	-	-	101	360
3831	Optical instruments and lenses	846	222	(S)	(S)	-	-	35	139
384	Medical instruments and supplies	6,110	2,440	(S)	(S)	(S)	(S)	277	1,017
3841	Surgical and medical instruments	1,377	504	(S)	(S)	-	-	46	177
3842	Surgical appliances and supplies	3,858	1,565	10	81	-	-	197	718
3843	Dental equipment and supplies	875	371	(S)	(S)	(S)	(S)	34	122
3851	Ophthalmic goods	2,443	1,077	(S)	(S)	(S)	(S)	126	370
3861	Photographic equipment	12,497	7,830	501	4,397	(S)	(S)	322	1,081
387	Watches and clocks	2,323	766	34	247	-	-	79	255
3871	Watches and clocks	2,077	687	(S)	(S)	-	-	(S)	(S)
3872	Watchcases	246	79	(S)	(S)	-	-	(S)	(S)
39	Miscellaneous manufacturing	51,948	20,664	302	2,552	3	96	1,836	6,683
391	Jewelry and silverware	4,848	1,899	15	140	-	-	295	823
3911	Jewelry, precious metal	1,471	459	(S)	(S)	-	-	36	137
3912	Jewelers' findings and materials	689	213	-	-	-	-	(S)	(S)
3913	Lapidary work	142	72	-	-	-	-	(S)	(S)
3914	Silverware and plated ware	2,546	1,155	(S)	(S)	-	-	229	584
3931	Musical instruments and parts	2,050	787	23	191	(S)	(S)	62	235
394	Toys and sporting goods	14,671	5,735	38	360	-	-	537	2,168
3941	Games and toys, n.e.c.	5,881	1,991	7	63	-	-	194	692
3942	Dolls	1,333	443	(S)	(S)	-	-	29	113
3943	Children's vehicles	746	397	(S)	(S)	-	-	(S)	(S)
3949	Sporting and athletic goods, n.e.c.	6,711	2,904	27	250	-	-	283	1,266
395	Office supplies	4,254	1,447	17	156	-	-	140	471
3951	Pens and mechanical pencils	1,239	283	(S)	(S)	-	-	14	73
3952	Lead pencils and art goods	1,095	461	15	132	-	-	58	204
3953	Marking devices	781	290	-	-	-	-	7	29
3955	Carbon paper and inked ribbons	1,139	413	(S)	(S)	-	-	61	165
396	Costume jewelry and notions	6,145	2,137	(S)	(S)	(S)	(S)	221	822
3961	Costume jewelry	1,839	729	-	-	-	-	57	248
3962	Artificial flowers	645	222	(S)	(S)	(S)	(S)	(S)	(S)
3963	Buttons	1,050	302	(S)	(S)	-	-	36	159
3964	Needles, pins, and fasteners	2,611	884	(S)	(S)	(S)	(S)	113	347
398, 399	Miscellaneous manufactures	19,980	8,659	203	1,639	(S)	(S)	582	2,164
3981	Brooms and brushes	2,730	932	6	60	-	-	111	441
3982	Hard surface floor coverings	3,546	1,852	114	886	-	-	158	422
3983	Matches	638	294	19	107	-	-	27	114
3984	Candles	208	149	(S)	(S)	-	-	27	85
3987	Lamp shades	197	(S)	-	-	-	-	(S)	(S)
3988	Morticians' goods	2,929	1,315	38	323	(S)	(S)	55	237
3992	Furs, dressed and dyed	253	119	(S)	(S)	-	-	(S)	(S)
3993	Signs and advertising displays	5,693	2,365	(S)	(S)	-	-	92	438
3995	Umbrellas, parasols and canes	227	109	(S)	(S)	-	-	(S)	(S)
3999	Miscellaneous products, n.e.c.	3,559	1,491	18	187	-	-	87	341
19	Ordnance and accessories	25,939	10,257	298	2,179	-	-	794	2,294

Note: Details may not add to totals because of independent rounding. Industry group totals include estimates for all component industries, regardless of whether or not separate data are shown for the individual industries.

[1]The percentage sampling errors shown in these columns indicate the range of differences that can be expected between the estimates and comparable totals obtained in a complete canvass, because of sampling fluctuations. The estimates will differ from complete canvass totals by less than:

(i) The percentage shown: approximately 2 times out of 3.
(ii) Twice the percentage shown: approximately 19 times out of 20.
(iii) Three times the percentage shown: almost always.

by Industry Groups and Industries: 1962 --Continued

Purchased fuels--Continued			Electric energy					Standard error of estimate (percent) for columns--[1]				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood, and purchased steam)	Purchased		Generated	Generated and sold						
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	Quantity (million kw.-hrs.)	Cost ($1,000)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N	O	P					
9,101	5,461	2,281	1,744	25,299	447	13	86	1	4	5	3	38
1,596	958	257	490	6,251	(S)	-	-	1	5	9	4	3811
2,702	1,637	186	488	7,164	(S)	-	-	1	11	6	4	382
1,538	924	155	311	4,921	(S)	-	-	1	15	5	5	3821
1,164	713	(S)	178	2,243	-	-	-	-	6	10	6	3822
134	41	(S)	36	624	-	-	-	-	1	1	6	3831
1,498	1,009	315	219	3,670	(S)	-	-	-	10	23	13	384
294	204	(S)	46	873	-	-	-	-	11	15	9	3841
(S)	(S)	92	146	2,293	(S)	-	-	1	14	-	21	3842
144	131	107	27	504	-	-	-	-	8	15	14	3843
958	422	276	78	1,366	25	-	-	-	5	1	8	3851
2,023	1,261	1,090	340	4,667	410	13	86	1	7	3	3	3861
190	133	131	92	1,557	(S)	-	-	1	4	1	8	387
(S)	(S)	111	84	1,390	(S)	-	-	-	-	-	8	3871
(S)	(S)	(S)	8	167	-	-	-	-	-	-	18	3872
8,562	5,780	5,553	1,902	31,284	30	10	131	2	6	6	3	39
602	567	369	175	2,949	16	10	124	1	2	11	5	391
143	113	207	49	1,012	-	-	-	-	7	9	7	3911
(S)	(S)	32	26	476	-	-	-	(X)	-	-	8	3912
(S)	(S)	(S)	4	70	-	-	-	(X)	-	-	14	3913
346	351	(S)	95	1,391	16	10	124	-	1	14	8	3914
437	254	(S)	70	1,263	(S)	(S)	(S)	1	1	20	6	3931
2,906	1,929	1,278	588	8,936	(S)	-	-	1	16	15	7	394
1,093	717	519	247	3,890	-	-	-	1	4	20	6	3941
(S)	(S)	229	47	890	-	-	-	-	18	-	10	3942
358	223	58	20	349	-	-	-	-	-	1	6	3943
1,364	916	472	275	3,807	(S)	-	-	1	27	27	15	3949
601	410	410	161	2,807	-	-	-	1	15	10	8	395
187	114	(S)	61	956	-	-	-	-	14	1	12	3951
137	77	48	42	634	-	-	-	1	29	1	10	3952
96	82	179	20	491	-	-	-	-	1	24	12	3953
181	137	(S)	38	726	-	-	-	-	10	22	21	3955
535	334	886	232	4,008	(S)	-	-	-	7	9	6	396
62	57	424	59	1,110	-	-	-	-	12	1	8	3961
(S)	(S)	102	23	423	-	-	-	-	-	-	24	3962
(S)	(S)	101	50	748	-	-	-	-	19	-	15	3963
405	230	259	100	1,727	(S)	-	-	-	3	4	10	3964
3,481	2,286	2,561	676	11,321	10	-	-	12	23	19	12	398 399
327	221	210	98	1,798	(S)	-	-	17	27	18	13	3981
390	235	309	151	1,694	(S)	-	-	1	1	1	1	3982
(S)	(S)	33	30	344	(S)	-	-	1	1	-	1	3983
(S)	(S)	(S)	2	59	(S)	-	-	-	1	-	1	3984
(S)	(S)	(S)	(S)	(S)	-	-	-	-	-	-	-	3987
563	310	436	83	1,614	(S)	-	-	16	17	16	7	3988
(S)	(S)	51	6	134	-	-	-	-	-	-	8	3992
1,439	991	891	179	3,328	(S)	-	-	22	18	14	9	3993
(S)	(S)	56	(S)	(S)	-	-	-	-	-	-	-	3995
596	417	546	112	2,068	-	-	-	5	24	22	11	3999
9,044	4,048	1,736	1,480	15,682	178	18	249	1	1	1	1	19

The approximate reliability of the estimates for which sampling errors are not shown may be judged from the published figures for related items for the same industry.

- Entry represents zero.

S Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); cost of fuel less than $50 thousand; quantity of electric energy less than 5 million kw.-hrs.; to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

X Not applicable.

TABLE 8. Consumption for Heat and Power, by

	Division, State, and year	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels							
			Total cost	Bituminous coal, lignite and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 barrels)	Cost ($1,000)
		A	B	C	D	E	F	G	H
1	United States, total...1962..	6,184,057	3,360,720	89,438	639,518	17,747	304,834	195,615	623,341
2	1958..	5,067,049	2,836,244	81,784	638,206	13,585	271,007	166,301	522,704
3	1954..	4,931,662	3,203,856	91,458	676,811	54,372	867,893	186,455	581,201
4	New England, total.....1962..	358,321	177,211	2,115	24,102	66	1,997	35,323	104,367
5	1958..	310,900	164,913	2,420	30,007	53	1,508	22,649	71,313
6	1954..	265,539	143,864	3,044	36,380	269	4,975	27,130	76,289
7	Maine.....1962..	45,172	29,687	703	8,463	(S)	(S)	6,340	17,787
8	1958..	37,336	26,376	751	9,888	1	22	4,103	12,461
9	1954..	30,692	21,003	870	10,023	12	125	2,830	8,168
10	New Hampshire.....1962..	23,061	12,521	415	4,533	(S)	(S)	1,871	5,807
11	1958..	22,205	13,191	345	4,344	1	35	1,041	3,688
12	1954..	19,337	11,865	223	4,763	2	70	1,015	2,923
13	Vermont.....1962..	10,614	4,891	96	1,163	-	-	716	2,747
14	1958..	8,175	4,238	94	1,344	(S)	(S)	330	1,085
15	1954..	7,361	3,755	143	1,623	24	277	378	1,440
16	Massachusetts.....1962..	153,889	70,527	671	7,468	28	870	13,799	41,732
17	1958..	137,976	68,810	793	9,344	28	989	8,932	29,483
18	1954..	117,010	60,942	1,120	12,375	187	3,441	11,827	34,041
19	Rhode Island.....1962..	31,182	15,655	(S)	(S)	(S)	(S)	3,284	9,400
20	1958..	24,259	12,144	54	513	(S)	(S)	2,071	7,103
21	1954..	22,272	11,706	66	787	6	144	3,636	9,259
22	Connecticut.....1962..	94,403	43,930	216	2,247	32	1,008	9,313	26,894
23	1958..	80,949	40,154	383	4,574	12	390	6,172	17,493
24	1954..	68,867	34,593	622	6,809	38	918	7,444	20,458
25	Middle Atlantic, total.....1962..	1,245,993	702,685	18,722	145,694	5,937	84,765	64,887	197,812
26	1958..	1,088,052	653,686	19,283	155,130	5,826	96,863	50,560	156,615
27	1954..	1,201,358	820,626	22,687	177,168	17,393	265,842	56,684	184,462
28	New York.....1962..	433,212	212,424	6,477	58,035	1,159	19,623	15,434	53,090
29	1958..	363,666	191,852	5,709	58,031	1,095	19,134	12,858	44,830
30	1954..	388,951	234,205	7,539	69,079	3,248	49,743	15,378	66,290
31	New Jersey.....1962..	239,047	132,957	1,759	16,197	262	4,325	27,484	73,809
32	1958..	207,520	120,860	2,511	21,653	136	2,795	18,972	53,726
33	1954..	165,629	98,945	2,887	25,089	151	3,140	18,491	49,329
34	Pennsylvania.....1962..	573,734	357,304	10,486	71,462	4,516	60,817	21,969	70,913
35	1958..	516,866	340,974	11,063	75,446	4,595	74,934	18,730	58,059
36	1954..	646,778	487,476	12,261	83,000	13,994	212,959	22,815	68,843
37	East North Central, total..1962..	1,804,548	996,720	37,119	266,345	7,673	143,558	39,510	149,562
38	1958..	1,491,168	852,375	34,129	261,956	5,153	115,095	42,306	136,591
39	1954..	1,633,561	1,159,821	38,172	271,261	23,359	391,738	45,967	160,742
40	Ohio.....1962..	601,654	314,132	12,325	77,131	3,806	54,689	8,193	30,090
41	1958..	517,042	271,314	10,577	77,437	2,616	44,998	7,645	28,011
42	1954..	581,165	433,352	12,763	82,066	10,603	152,929	11,421	43,957
43	Indiana.....1962..	241,505	129,261	4,425	29,389	340	4,978	9,646	34,382
44	1958..	188,565	112,288	4,320	29,805	183	4,712	11,184	35,128
45	1954..	311,522	247,196	4,942	31,122	6,422	115,368	11,880	35,961
46	Illinois.....1962..	418,499	240,694	7,353	47,334	2,098	48,398	12,330	48,169
47	1958..	359,718	223,960	7,022	45,802	1,912	53,260	12,987	41,749
48	1954..	326,457	219,210	7,610	48,528	3,987	78,771	10,731	36,232
49	Michigan.....1962..	394,438	229,488	9,301	77,912	1,269	30,000	6,699	25,731
50	1958..	298,764	170,014	8,535	71,868	351	9,110	7,630	21,975
51	1954..	307,604	195,248	8,821	72,645	2,215	41,683	8,647	32,837
52	Wisconsin.....1962..	148,452	83,145	3,715	34,579	160	5,493	2,642	11,190
53	1958..	127,079	74,799	3,675	37,044	91	3,015	2,860	9,728
54	1954..	106,813	64,815	4,036	36,900	132	2,987	3,288	11,755
55	West North Central, total..1962..	320,255	168,512	4,661	32,117	165	4,681	4,518	16,898
56	1958..	247,757	134,736	4,219	30,836	136	3,831	5,165	18,282
57	1954..	218,666	126,222	4,666	33,149	685	12,685	5,196	16,805
58	Minnesota.....1962..	71,706	38,066	946	9,033	18	493	1,775	6,912
59	1958..	60,664	35,873	1,008	10,883	19	548	2,751	8,569
60	1954..	60,098	39,101	1,145	10,590	548	9,393	2,069	6,803
61	Iowa.....1962..	72,754	40,343	1,565	10,759	87	2,544	745	3,015
62	1958..	52,401	29,081	1,281	8,500	44	1,290	795	2,759
63	1954..	42,054	23,799	1,421	10,034	55	1,101	704	2,453

See footnotes at end of table.

Geographic Areas: 1962, 1958, and 1954

Purchased fuel--Continued				Electric energy			Standard error of estimate (percent) for 1962 figures in columns—[1]				
Gas (natural, manufactured, still, blast furnace, and coke oven		Other fuels (gasoline, LPG, wood and purchased steam)	Fuels not specified by kind	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"N"	
I	J	K	L	M	N	O					
4,308,106	1,455,928	337,099	(X)	313,961	2,823,337	74,261	1	1	1	1	1
3,112,212	900,901	147,873	355,553	252,909	2,230,805	66,850	-	-	-	-	2
5,914,898	847,303	201,979	28,669	187,148	1,727,806	60,639	-	-	-	-	3
27,778	23,218	23,527	(X)	12,184	181,110	2,666	3	2	3	1	4
29,278	13,638	11,771	36,676	9,290	145,987	2,484	-	-	-	-	5
18,257	11,152	13,519	1,549	7,966	121,675	2,553	-	-	-	-	6
(S)	(S)	3,072	(X)	1,380	15,485	1,457	1	3	-	3	7
553	318	806	2,881	1,065	10,960	1,191	-	-	-	-	8
527	370	2,145	172	961	9,689	1,209	-	-	-	-	9
(S)	(S)	1,535	(X)	767	10,540	194	1	3	-	3	10
348	247	3,448	1,429	735	9,014	168	-	-	-	-	11
227	168	3,826	115	612	17,472	95	-	-	-	-	12
37	26	955	(X)	358	5,723	28	8	16	1	6	13
316	201	(S)	1,392	233	3,937	83	-	-	-	-	14
141	62	324	29	230	3,606	52	-	-	-	-	15
12,163	10,054	10,403	(X)	5,322	83,362	551	9	4	4	2	16
16,880	6,825	5,442	16,727	4,055	69,166	598	-	-	-	-	17
9,190	5,676	4,720	689	3,472	56,068	717	-	-	-	-	18
3,134	2,351	3,608	(X)	971	15,527	69	-	6	7	9	19
3,457	1,310	(S)	2,830	669	12,115	74	-	-	-	-	20
3,201	1,057	316	143	565	10,566	81	-	-	-	-	21
11,300	9,827	3,954	(X)	3,387	50,473	367	1	2	4	2	22
7,724	4,737	1,543	11,417	2,533	40,795	370	-	-	-	-	23
4,971	3,819	2,188	401	2,126	34,274	399	-	-	-	-	24
396,791	200,986	73,428	(X)	47,747	543,308	7,880	1	2	4	1	25
305,378	124,813	34,503	85,762	35,869	434,366	7,336	-	-	-	-	26
1,424,308	145,030	41,043	7,081	32,727	380,732	6,662	-	-	-	-	27
79,031	48,813	32,863	(X)	20,576	220,788	1,977	1	2	2	2	28
49,451	22,642	11,512	35,703	15,013	171,814	1,874	-	-	-	-	29
295,787	32,413	14,387	2,293	15,321	154,746	1,678	-	-	-	-	30
31,663	21,080	17,546	(X)	8,526	106,090	1,339	1	2	2	2	31
25,423	12,361	10,039	20,286	6,450	86,660	1,253	-	-	-	-	32
16,468	11,924	8,488	975	4,889	66,684	1,330	-	-	-	-	33
286,097	131,093	23,019	(X)	18,645	216,430	4,563	1	2	8	1	34
230,504	89,810	12,952	29,773	14,406	175,892	4,209	-	-	-	-	35
1,112,053	100,693	18,168	3,813	12,517	159,302	3,654	-	-	-	-	36
814,742	363,668	73,587	(X)	80,906	807,828	15,906	1	2	1	1	37
477,547	207,810	36,290	94,633	63,631	638,793	15,757	-	-	-	-	38
1,711,072	278,124	48,410	9,546	40,089	473,740	14,135	-	-	-	-	39
253,707	133,420	18,802	(X)	38,924	287,522	5,033	1	3	1	1	40
177,748	84,565	7,840	28,463	32,951	245,728	5,854	-	-	-	-	41
880,995	137,131	13,829	3,440	13,293	147,813	4,475	-	-	-	-	42
129,323	53,190	7,322	(X)	9,854	112,244	2,699	1	4	1	1	43
73,289	27,086	5,342	10,215	6,122	76,277	2,786	-	-	-	-	44
461,577	51,944	10,995	1,806	5,574	64,326	2,506	-	-	-	-	45
186,072	82,436	14,357	(X)	14,028	177,805	2,353	1	2	1	1	46
136,065	49,244	6,952	26,953	10,707	135,758	2,142	-	-	-	-	47
203,747	47,394	6,393	1,892	9,159	107,247	2,017	-	-	-	-	48
206,129	71,806	24,039	(X)	13,352	164,950	4,005	2	5	2	1	49
71,864	36,433	12,178	18,450	10,109	128,750	3,446	-	-	-	-	50
153,893	34,985	11,321	1,777	8,969	112,356	3,761	-	-	-	-	51
39,511	22,816	9,067	(X)	4,748	65,307	1,817	2	6	2	2	52
18,581	10,482	3,978	10,552	3,742	52,280	1,529	-	-	-	-	53
10,860	6,670	5,872	631	3,094	41,998	1,376	-	-	-	-	54
282,013	92,782	22,034	(X)	12,203	151,743	2,357	2	3	12	1	55
183,795	56,044	8,222	17,521	8,875	113,021	2,250	-	-	-	-	56
250,120	50,070	12,394	1,119	7,227	92,444	1,920	-	-	-	-	57
43,654	17,109	4,519	(X)	2,463	33,640	663	4	6	5	3	58
27,018	9,573	1,928	4,372	1,700	24,791	689	-	-	-	-	59
70,546	10,343	1,685	287	1,426	20,997	524	-	-	-	-	60
51,153	18,801	5,224	(X)	2,566	32,411	667	4	5	5	4	61
32,506	11,480	1,184	3,868	1,855	23,320	564	-	-	-	-	62
32,591	8,547	1,406	258	1,463	18,255	533	-	-	-	-	63

TABLE 8. Consumption for Heat and Power, by

	Division, State, and year	Total cost of purchased fuels and electric energy	Purchased fuels							
			Total cost	Bituminous coal, lignite and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity	Cost	Quantity	Cost	Quantity	Cost
		($1,000)	($1,000)	(1,000 tons)	($1,000)	(1,000 tons)	($1,000)	(1,000 barrels)	($1,000)
		A	B	C	D	E	F	G	H
	West North Central—Continued								
1	Missouri.....1962..	98,056	48,390	1,737	9,990	44	1,151	1,165	4,161
2	1958..	77,044	39,482	1,574	9,303	59	1,573	1,190	5,071
3	1954..	66,875	34,388	1,451	8,208	64	1,687	1,624	5,302
4	North Dakota.....1962..	1,904	940	60	206	(S)	(S)	57	334
5	1958..	1,954	1,060	44	279	(S)	(S)	69	179
6	1954..	1,305	720	63	410	(Z)	9	22	98
7	South Dakota.....1962..	6,050	3,161	(S)	(S)	(S)	(S)	(S)	(S)
8	1958..	2,979	1,486	20	193	(S)	(S)	37	254
9	1954..	2,506	1,318	38	370	(Z)	20	99	199
10	Nebraska.....1962..	20,177	11,294	161	1,003	10	291	171	664
11	1958..	16,470	9,007	134	800	9	217	109	725
12	1954..	17,355	12,084	165	1,134	11	273	208	707
13	Kansas.....1962..	49,608	26,318	190	1,105	5	164	427	1,177
14	1958..	36,245	18,747	158	878	5	183	214	725
15	1954..	28,473	14,812	383	2,403	7	202	470	1,243
16	South Atlantic, total.....1962..	696,670	368,976	16,829	115,523	366	8,021	30,553	90,044
17	1958..	566,260	317,496	14,430	107,771	234	5,043	29,367	83,185
18	1954..	511,030	325,114	14,713	105,077	4,843	65,885	24,659	67,543
19	Delaware.....1962..	24,039	14,224	151	1,226	(S)	(S)	2,375	7,001
20	1958..	22,213	14,858	119	1,198	2	40	2,252	6,399
21	1954..	12,074	7,637	189	1,451	1	37	2,411	5,531
22	Maryland.....1962..	94,231	51,292	1,515	11,193	(S)	(S)	7,385	21,557
23	1958..	79,316	44,045	1,237	10,201	41	447	7,124	20,484
24	1954..	116,784	90,962	1,117	8,335	3,120	43,495	5,076	13,433
25	District of Columbia.....1962..	3,046	1,182	(S)	(S)	-	-	156	500
26	1958..	2,857	1,328	(S)	(S)	-	-	146	492
27	1954..	2,155	930	11	114	-	-	135	458
28	Virginia.....1962..	102,348	63,004	4,631	35,638	119	2,674	2,489	9,208
29	1958..	86,185	56,877	3,984	34,063	145	3,343	1,945	5,821
30	1954..	69,906	47,538	4,120	32,673	126	3,213	1,363	4,895
31	West Virginia.....1962..	101,091	55,217	4,960	23,802	36	843	921	3,177
32	1958..	80,504	48,574	4,444	22,710	21	443	1,289	3,478
33	1954..	91,888	68,129	3,728	19,107	1,565	18,061	1,054	3,142
34	North Carolina.....1962..	110,177	50,355	2,551	19,683	18	398	2,710	9,820
35	1958..	85,524	41,059	2,070	17,991	17	448	2,376	7,370
36	1954..	72,852	33,600	2,183	18,838	13	337	1,663	8,363
37	South Carolina.....1962..	89,337	43,053	2,263	18,314	18	424	2,854	8,223
38	1958..	75,716	37,145	1,792	15,711	2	75	2,782	7,782
39	1954..	56,528	28,691	2,202	18,169	5	112	2,743	7,337
40	Georgia.....1962..	88,877	45,423	485	3,651	6	198	3,317	9,454
41	1958..	70,786	35,931	513	3,771	4	141	3,112	9,504
42	1954..	50,607	23,771	1,083	5,622	10	237	2,700	7,223
43	Florida.....1962..	83,524	45,226	271	1,993	25	522	8,346	21,104
44	1958..	63,159	37,679	(S)	(S)	2	106	8,341	21,855
45	1954..	38,236	23,856	80	768	3	393	7,514	17,161
46	East South Central, total..1962..	510,282	211,881	6,259	36,105	2,919	49,340	2,425	9,674
47	1958..	441,933	166,659	5,017	32,699	1,735	37,672	2,591	10,824
48	1954..	363,347	159,094	5,075	28,320	4,065	60,643	2,737	9,270
49	Kentucky.....1962..	142,412	39,321	1,842	9,674	(S)	(S)	402	1,715
50	1958..	125,382	31,231	1,160	6,154	222	6,967	515	1,908
51	1954..	108,597	24,873	1,650	7,254	514	6,642	514	1,879
52	Tennessee.....1962..	170,772	55,628	3,035	17,730	258	5,513	604	2,681
53	1958..	165,422	46,084	2,606	17,891	(S)	(S)	632	2,824
54	1954..	117,449	38,926	2,453	14,633	127	3,772	455	1,882
55	Alabama.....1962..	156,529	93,794	1,379	8,672	2,131	35,218	1,342	4,915
56	1958..	123,669	74,035	1,245	8,557	1,462	29,176	1,369	5,702
57	1954..	119,191	85,605	946	6,169	3,424	50,212	1,660	5,045
58	Mississippi.....1962..	40,569	23,138	(S)	(S)	(S)	(S)	77	363
59	1958..	27,460	15,309	6	97	(S)	(S)	75	390
60	1954..	18,110	9,690	26	264	(Z)	17	108	464
61	West South Central, total..1962..	568,889	393,108	2,092	8,421	311	3,631	898	2,959
62	1958..	397,411	272,051	847	8,093	182	3,624	1,087	4,555
63	1954..	273,904	180,493	583	5,289	465	8,795	1,278	3,780

See footnotes at end of table.

Geographic Areas: 1962, 1958, and 1954--Continued

Purchased fuel--Continued				Electric energy			Standard error of estimate (percent) for 1962 figures in columns–[1]				
Gas (natural, manufactured, still, blast furnace, and coke oven		Other fuels (gasoline, LPG, wood and purchased steam)	Fuels not specified by kind	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"N"	
I	J	K	L	M	N	O					
74,699	26,674	6,414	(X)	3,862	49,666	562	1	3	3	2	1
41,647	14,953	2,943	5,639	2,858	37,562	530	-	-	-	-	2
63,972	15,709	3,195	287	2,374	32,487	494	-	-	-	-	3
637	319	(S)	(X)	46	964	51	15	27	12	10	4
936	317	(S)	213	40	894	35	-	-	-	-	5
372	122	81	-	24	585	7	-	-	-	-	6
(S)	(S)	579	(X)	187	2,889	(S)	-	-	-	26	7
2,295	780	(S)	192	81	1,493	2	-	-	-	-	8
3,254	643	86	-	58	1,188	1	-	-	-	-	9
19,595	6,339	2,997	(X)	820	8,883	13	1	6	1	4	10
14,108	4,668	1,527	1,070	671	7,463	13	-	-	-	-	11
17,999	4,375	5,480	115	466	5,271	21	-	-	-	-	12
87,681	21,646	2,226	(X)	2,259	23,290	399	1	7	3	2	13
65,285	14,273	521	2,167	1,670	17,498	417	-	-	-	-	14
61,386	10,331	461	172	1,416	13,661	340	-	-	-	-	15
255,161	113,116	42,272	(X)	35,474	327,694	13,923	1	1	1	1	16
159,050	61,773	20,448	39,276	25,142	248,764	12,746	-	-	-	-	17
461,609	63,347	20,310	2,952	19,346	185,916	10,661	-	-	-	-	18
5,061	2,575	(S)	(X)	875	9,815	199	8	4	2	3	19
3,938	1,060	5,141	1,020	636	7,355	164	-	-	-	-	20
278	212	349	57	341	4,437	83	-	-	-	-	21
16,416	10,892	(S)	(X)	3,378	42,939	1,443	1	1	2	2	22
11,193	7,331	1,681	3,901	2,701	35,271	1,284	-	-	-	-	23
337,025	20,822	4,189	688	2,031	25,822	1,249	-	-	-	-	24
359	306	(S)	(X)	122	1,864	(S)	-	22	16	13	25
551	248	(S)	357	89	1,529	-	-	-	-	-	26
188	249	109	-	89	1,225	-	-	-	-	-	27
17,087	9,370	6,114	(X)	3,679	39,344	2,175	1	7	4	2	28
12,286	6,012	3,382	4,256	2,679	29,308	1,951	-	-	-	-	29
10,185	3,665	2,691	401	2,082	22,368	1,787	-	-	-	-	30
50,853	24,801	2,594	(X)	7,312	45,874	2,874	1	3	1	1	31
36,476	15,080	2,370	4,493	4,570	31,930	2,617	-	-	-	-	32
58,586	25,048	2,226	545	3,149	23,759	2,607	-	-	-	-	33
25,691	12,643	7,811	(X)	6,436	59,822	1,313	1	4	9	1	34
11,382	4,910	1,527	8,813	4,513	44,465	1,701	-	-	-	-	35
3,279	2,108	3,524	430	4,145	39,252	1,350	-	-	-	-	36
30,961	13,041	3,051	(X)	6,188	46,284	1,822	2	3	2	1	37
19,723	7,829	1,508	4,240	4,849	38,571	1,889	-	-	-	-	38
2,920	967	1,791	315	3,625	27,837	1,633	-	-	-	-	39
68,661	24,907	7,213	(X)	4,274	43,454	2,154	1	2	1	2	40
41,434	13,346	1,986	7,183	3,306	34,855	1,476	-	-	-	-	41
36,026	8,106	2,296	287	2,690	26,836	858	-	-	-	-	42
40,072	14,581	7,026	(X)	3,210	38,298	1,942	1	2	1	2	43
22,067	5,957	(S)	5,013	1,799	25,480	1,664	-	-	-	-	44
13,122	2,170	3,135	229	1,194	14,380	1,094	-	-	-	-	45
282,938	98,802	17,960	(X)	57,180	298,401	4,414	1	10	1	1	46
199,342	60,420	5,387	19,657	56,816	275,274	2,912	-	-	-	-	47
249,844	50,695	8,044	2,122	37,339	204,253	3,610	-	-	-	-	48
36,675	16,189	(S)	(X)	21.647	103,091	147	1	4	3	1	49
27,147	9,563	865	5,774	21,042	94,151	121	-	-	-	-	50
24,750	7,040	1,427	631	15,812	83,724	36	-	-	-	-	51
67,809	25,437	4,267	(X)	24,922	115,144	1,632	1	25	2	1	52
43,832	15,075	(S)	6,051	27,335	119,338	1,021	-	-	-	-	53
67,456	16,310	1,641	688	15,981	78,523	2,285	-	-	-	-	54
119,916	38,072	6,917	(X)	8,911	62,735	1,906	1	9	1	1	55
87,859	24,883	1,033	4,704	7,329	49,634	1,233	-	-	-	-	56
112,337	19,806	3,685	688	4,783	33,586	757	-	-	-	-	57
58,538	19,104	(S)	(X)	1,699	17,431	729	-	11	3	3	58
40,504	10,899	(S)	3,128	1,110	12,151	537	-	-	-	-	59
45,301	7,539	1,291	115	763	8,420	532	-	-	-	-	60
1,678,607	345,769	32,328	(X)	20,857	175,781	23,080	1	12	1	1	61
1,372,867	232,297	8,924	14,558	16,022	125,360	19,771	-	-	-	-	62
1,266,186	152,467	8,586	1,576	13,371	93,411	17,987	-	-	-	-	63

TABLE 8. Consumption for Heat and Power, by

	Division, State, and year	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels						
			Total cost ($1,000)	Bituminous coal, lignite and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 barrels)	Cost ($1,000)
		A	B	C	D	E	F	G	H
	West South Central—Continued								
1	Arkansas....1962..	48,789	27,961	(S)	(S)	-	-	122	444
2	1958..	36,572	20,670	17	123	1	21	204	1,012
3	1954..	25,430	13,064	19	142	2	63	302	765
4	Louisiana....1962..	135,762	101,825	(S)	(S)	(S)	(S)	79	363
5	1958..	93,450	68,155	3	38	12	268	91	556
6	1954..	61,567	42,780	5	55	3	109	166	678
7	Oklahoma....1962..	33,837	19,493	91	807	5	103	27	71
8	1958..	26,525	15,297	147	1,057	7	184	27	122
9	1954..	29,261	18,951	149	1,061	28	384	76	166
10	Texas....1962..	350,501	243,829	(S)	(S)	(S)	(S)	670	2,081
11	1958..	240,864	167,929	680	6,875	162	3,151	765	2,865
12	1954..	157,646	105,698	410	4,031	432	8,239	734	2,171
13	Mountain, total....1962..	136,296	76,006	1,134	7,309	177	4,382	2,494	8,495
14	1958..	107,895	63,720	1,210	9,343	167	3,950	2,386	7,365
15	1954..	123,946	91,608	1,281	9,353	1,828	38,074	3,192	13,653
16	Montana....1962..	18,763	9,805	117	802	(S)	(S)	(S)	(S)
17	1958..	17,477	9,180	125	841	53	1,115	156	675
18	1954..	11,937	6,640	141	960	56	1,774	126	529
19	Idaho....1962..	25,198	12,105	154	1,395	36	805	303	1,551
20	1958..	20,629	10,711	155	1,652	35	792	168	685
21	1954..	14,468	7,740	282	2,636	36	748	734	2,946
22	Wyoming....1962..	5,704	4,231	58	279	(S)	(S)	(S)	(S)
23	1958..	4,589	3,435	67	363	(S)	(S)	11	85
24	1954..	2,959	1,964	71	401	(S)	(S)	325	484
25	Colorado....1962..	30,221	16,575	460	2,563	29	747	696	1,912
26	1958..	23,719	14,960	396	2,352	37	986	806	1,671
27	1954..	36,227	29,229	364	2,230	679	12,495	581	5,588
28	New Mexico....1962..	5,683	3,223	-	-	-	-	(S)	(S)
29	1958..	4,161	2,339	(S)	(S)	(S)	(S)	19	183
30	1954..	3,055	1,538	(S)	7	(S)	10	20	92
31	Arizona....1962..	22,788	12,869	-	-	-	-	26	146
32	1958..	14,198	7,945	(S)	(S)	(S)	(S)	47	254
33	1954..	9,547	5,315	(Z)	30	-	-	58	195
34	Utah....1962..	19,806	12,917	248	1,371	41	1,279	906	2,692
35	1958..	17,028	11,297	320	2,415	34	792	1,024	3,053
36	1954..	39,365	35,541	294	1,835	1,041	22,703	930	2,286
37	Nevada....1962..	8,133	4,281	97	899	3	98	323	1,274
38	1958..	6,094	3,853	147	1,546	(S)	(S)	155	759
39	1954..	6,388	3,641	129	1,254	16	340	418	1,533
40	Pacific, total....1962..	542,804	265,622	504	3,903	132	4,459	22,933	43,530
41	1958..	415,673	210,608	229	2,371	99	3,421	10,190	33,974
42	1954..	340,311	197,014	1,237	10,814	1,465	19,256	19,612	48,657
43	Washington....1962..	102,960	51,667	470	3,577	35	983	4,971	13,526
44	1958..	81,017	40,204	133	1,292	10	278	3,310	10,431
45	1954..	72,449	36,162	988	8,645	17	508	7,925	19,066
46	Oregon....1962..	60,333	30,977	(S)	(S)	(S)	(S)	2,097	7,546
47	1958..	48,879	27,439	67	665	16	434	1,923	7,766
48	1954..	38,085	21,549	146	1,715	6	309	3,191	8,926
49	California....1962..	368,925	176,792	25	210	92	3,258	6,556	17,677
50	1958..	278,721	138,849	29	414	73	2,709	4,957	15,777
51	1954..	222,844	134,826	102	447	1,441	18,411	7,582	17,684
52	Alaska....1962..	3,483	2,948	(S)	(S)	-	-	568	2,128
53	1958..	1,866	1,425	-	-	-	-	-	-
54	1954..	927	774	1	7	-	-	98	458
55	Hawaii....1962..	7,103	3,238	(S)	(S)	(S)	(S)	816	2,653
56	1958..	5,190	2,691	-	-	-	-	-	-
57	1954..	6,006	3,703	(S)	(S)	1	28	816	2,523

Note: Detail may not add to totals because of independent rounding.
- Entry represents zero.
S Withheld because the estimate did not meet publication standards for one or more of the following reasons: the standard error associated with the figure was too high (generally in excess of 25 percent); cost of fuel less than $50 thousand; quantity of electric energy less than 5 million kw.-hrs.; to avoid disclosing figures of individual companies; or on the basis of a general consistency review.
X Not applicable.
Z Less than one-half of the unit of measure indicated.

Geographic Areas: 1962, 1958, and 1954--Continued

Purchased fuel--Continued				Electric energy			Standard error of estimate (percent) for 1962 figures in columns—[1]				
Gas (natural, manufactured, still, blast furnace, and coke oven		Other fuels (gasoline, LPG, wood and purchased steam)	Fuels not specified by kind	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"N"	
I	J	K	L	M	N	O					
92,053	23,277	4,131	(X)	2,525	20,828	1,181	-	11	4	4	1
80,832	16,816	424	2,274	2,711	15,902	1,309	-	-	-	-	2
81,139	11,034	917	143	2,556	12,366	1,259	-	-	-	-	3
409,340	93,517	7,784	(X)	4,150	33,937	7,962	-	19	1	1	4
349,693	61,121	2,844	3,328	3,274	25,295	5,875	-	-	-	-	5
316,527	39,012	2,582	344	1,901	18,787	5,796	-	-	-	-	6
79,525	16,320	2,192	(X)	1,518	14,344	127	1	1	2	2	7
68,367	11,781	833	1,320	1,266	11,228	153	-	-	-	-	8
117,603	16,383	785	172	1,232	10,310	199	-	-	-	-	9
1,097,689	212,655	18,221	(X)	12,664	106,672	13,809	-	16	1	1	10
873,975	142,579	4,823	7,636	8,771	72,935	12,434	-	-	-	-	11
750,917	86,038	4,302	917	7,682	51,948	10,733	-	-	-	-	12
165,086	48,101	7,719	(X)	8,535	60,290	1,198	6	1	2	3	13
87,289	33,232	4,882	4,948	6,819	44,175	1,104	-	-	-	-	14
236,473	24,064	5,689	775	5,153	32,338	992	-	-	-	-	15
20,122	5,856	1,079	(X)	2,445	8,958	51	1	-	2	2	16
10,653	4,776	1,081	692	2,293	8,297	32	-	-	-	-	17
14,682	2,761	559	57	1,274	5,297	133	-	-	-	-	18
18,351	7,478	876	(X)	2,416	13,093	131	4	22	6	2	19
5,705	5,157	1,136	1,289	1,814	9,918	153	-	-	-	-	20
(Z)	(Z)	1,327	26	1,315	6,728	93	-	-	-	-	21
14,596	3,509	346	(X)	162	1,473	23	1	-	3	10	22
6,628	2,775	(S)	172	129	1,154	30	-	-	-	-	23
7,548	939	107	29	167	995	19	-	-	-	-	24
38,548	9,620	1,733	(X)	1,059	13,646	350	16	9	1	11	25
29,290	8,345	502	1,104	714	8,759	318	-	-	-	-	26
95,129	7,811	904	261	755	6,998	309	-	-	-	-	27
7,905	2,110	(S)	(X)	172	2,460	-	(X)	-	4	6	28
4,708	1,147	(S)	469	132	1,822	3	-	-	-	-	29
5,820	1,164	236	29	114	1,517	3	-	-	-	-	30
28,513	11,026	1,697	(X)	810	9,919	209	(X)	1	2	8	31
16,245	6,100	864	527	536	6,253	96	-	-	-	-	32
19,546	4,143	832	115	396	4,232	103	-	-	-	-	33
33,784	6,878	697	(X)	754	6,889	425	2	3	2	4	34
11,322	3,831	602	604	613	5,731	449	-	-	-	-	35
92,848	6,940	1,548	229	536	3,824	304	-	-	-	-	36
3,267	1,624	386	(X)	717	3,852	8	1	7	5	6	37
2,738	1,101	(S)	91	588	2,241	23	-	-	-	-	38
900	306	179	29	596	2,747	28	-	-	-	-	39
404,990	169,486	44,244	(X)	38,876	277,182	2,838	1	3	1	1	40
297,666	110,874	17,446	42,522	30,445	205,065	2,490	-	-	-	-	41
297,029	72,354	43,984	1,949	23,930	143,297	2,119	-	-	-	-	42
54,657	21,125	12,456	(X)	14,584	51,293	1,065	1	5	2	1	43
41,966	17,343	5,927	4,933	12,734	40,813	864	-	-	-	-	44
621	535	6,978	430	12,323	36,287	874	-	-	-	-	45
26,706	11,047	12,153	(X)	6,220	29,356	437	-	5	1	2	46
14,852	6,272	3,817	8,485	4,358	21,440	429	-	-	-	-	47
21,172	1,505	8,865	229	3,486	16,536	450	-	-	-	-	48
323,489	137,185	18,462	(X)	17,776	192,133	894	1	5	2	1	49
240,848	87,259	7,702	24,988	13,198	139,872	851	-	-	-	-	50
275,193	70,279	26,715	1,290	8,000	88,018	795	-	-	-	-	51
(S)	(S)	746	(X)	24	535	256	-	10	-	19	52
-	-	-	1,425	21	441	130	-	-	-	-	53
-	-	309	(X)	32	153	-	-	-	-	-	54
129	112	427	(X)	273	3,865	185	-	3	9	3	55
-	-	-	2,691	134	2,499	216	-	-	-	-	56
43	35	1,117	(X)	89	2,303	-	-	-	-	-	57

[1]The percentage sampling errors shown in these columns indicate the range of differences that can be expected between the estimates and comparable totals obtained in a complete canvass because of sampling fluctuations. The estimates will differ from complete canvass totals by less than:

(i) The percentage shown: approximately 2 times out of 3.
(ii) Twice the percentage shown: approximately 19 times out of 20.
(iii) Three times the percentage shown: almost always.

Sampling errors are not shown for years prior to 1962 since these totals were obtained from a complete census rather than a sample survey.

TABLE 9. Consumption for Heat and Power, by States

Code	State and major group	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels: Total cost of purchased fuels ($1,000)	Bituminous coal, lignite, and anthracite: Quantity (1,000 tons)	Bituminous coal, lignite, and anthracite: Cost ($1,000)	Coke and breeze: Quantity (1,000 tons)	Coke and breeze: Cost ($1,000)	Fuel oil (distillate and residual): Quantity (1,000 barrels)	Fuel oil (distillate and residual): Cost ($1,000)
		A	B	C	D	E	F	G	H
	United States, total.....	6,184,057	3,360,720	89,438	639,518	17,747	304,834	195,615	623,341
	Alabama, total.....	156,529	93,794	1,379	8,672	2,131	35,218	1,342	4,915
20	Food and kindred products...	5,686	2,237	6	67	-	-	33	133
21	Tobacco products.....	58	(S)	-	-	-	-	-	-
22	Textile mill products.....	8,199	2,255	12	100	-	-	26	96
23	Apparel and related products	1,162	404	(S)	(S)	-	-	(S)	(S)
24	Lumber and wood products....	5,726	3,804	(S)	(S)	-	-	(S)	(S)
25	Furniture and fixtures.....	211	64	(S)	(S)	(S)	(S)	(S)	(S)
26	Paper and allied products...	14,328	10,028	724	4,361	-	-	224	678
28	Chemicals and allied products.....	14,743	7,700	327	1,995	-	-	47	160
29	Petroleum and coal products.	1,020	837	(S)	(S)	-	-	17	63
30	Rubber and plastics products, n.e.c.....	2,547	920	39	229	(S)	(S)	(S)	(S)
32	Stone, clay and glass products.....	12,120	8,988	43	291	(S)	(S)	59	229
33	Primary metal industries....	84,516	54,136	207	1,460	2,100	34,481	722	2,577
34	Fabricated metal products...	2,278	1,160	(S)	(S)	14	439	(S)	(S)
35	Machinery, except electrical.....	658	252	(S)	(S)	(S)	(S)	(S)	(S)
36	Electrical machinery.....	687	226	-	-	-	-	(S)	(S)
37	Transportation equipment....	1,217	395	(S)	(S)	(S)	(S)	34	85
	Alaska, total.....	3,483	2,948	(S)	(S)	-	-	568	2,128
	Arizona, total.....	22,788	12,869	-	-	-	-	26	146
20	Food and kindred products...	2,426	818	-	-	-	-	-	-
33	Primary metal industries....	8,756	6,232	-	-	-	-	15	64
36	Electrical machinery.....	689	57	-	-	-	-	-	-
	Arkansas, total.....	48,789	27,961	(S)	(S)	-	-	122	444
22	Textile mill products.....	779	280	-	-	-	-	45	125
24	Lumber and wood products....	6,133	3,436	-	-	-	-	(S)	(S)
25	Furniture and fixtures.....	1,065	283	(S)	(S)	-	-	(S)	(S)
26	Paper and allied products...	6,973	4,914	7	64	-	-	31	101
28	Chemicals and allied products.....	9,028	7,680	-	-	-	-	(S)	(S)
32	Stone, clay and glass products.....	3,623	2,393	-	-	-	-	12	58
36	Electrical machinery.....	798	162	-	-	-	-	-	-
19 39	Miscellaneous manufacturing, including ordnance.....	394	84	-	-	-	-	-	-
	California, total.....	368,925	176,792	25	210	92	3,258	6,556	17,677
20	Food and kindred products...	55,986	32,455	-	-	4	126	1,365	3,280
22	Textile mill products.....	1,328	575	-	-	-	-	(S)	(S)
23	Apparel and related products	3,312	610	-	-	-	-	(S)	(S)
24	Lumber and wood products....	17,452	7,723	-	-	-	-	746	3,009
25	Furniture and fixtures.....	2,977	828	-	-	-	-	(S)	(S)
26	Paper and allied products...	16,646	9,231	-	-	-	-	1,426	3,000
27	Printing and publishing.....	6,532	1,367	(S)	(S)	-	-	(S)	(S)
28	Chemicals and allied products.....	37,623	18,011	-	-	(S)	(S)	655	1,538
29	Petroleum and coal products.	38,725	21,546	-	-	-	-	363	959
30	Rubber and plastics products, n.e.c.....	8,292	2,596	(S)	(S)	-	-	20	60
32	Stone, clay and glass products.....	56,239	40,214	(S)	(S)	4	146	438	1,339
33	Primary metal industries....	39,663	18,794	(S)	(S)	61	2,244	1,162	3,122
34	Fabricated metal products...	16,672	6,045	-	-	14	630	(S)	(S)
35	Machinery, except electrical.....	12,781	3,704	-	-	(S)	(S)	(S)	(S)
36	Electrical machinery.....	14,912	3,642	-	-	(S)	(S)	(S)	(S)
37	Transportation equipment....	27,090	6,326	-	-	-	-	283	996
38	Instruments and related products.....	2,501	468	-	-	-	-	(S)	(S)
19 39	Miscellaneous manufacturing, including ordnance.....	9,533	2,376	-	-	-	-	(S)	(S)

See footnotes at end of table.

and Selected Major Industry Groups: 1962

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns– (See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
4,308,106	1,455,928	337,099	313,961	2,823,337	74,261	1	1	1	1	
119,916	38,072	6,917	8,911	62,735	1,906	1	9	1	1	
3,088	1,364	673	266	3,449	-	15	23	14	11	20
(S)	(S)	(S)	(S)	(S)	-	(X)	(X)	-	-	21
5,632	1,997	62	799	5,944	8	1	1	1	1	22
179	103	171	43	758	-	-	-	19	20	23
(S)	(S)	2,706	124	1,922	6	-	-	-	15	24
(S)	(S)	(S)	9	147	-	-	-	-	7	25
13,936	4,391	598	581	4,300	1,274	-	-	-	-	26
16,131	4,948	597	1,080	7,043	195	1	1	1	1	28
1,787	643	93	10	183	-	-	1	3	16	29
2,142	667	(S)	241	1,627	-	1	-	1	1	30
25,479	7,726	(S)	400	3,132	-	1	4	2	2	32
48,076	14,704	914	5,022	30,380	422	1	1	1	1	33
1,265	547	123	90	1,118	-	-	-	1	5	34
161	88	150	29	406	-	-	-	1	10	35
357	191	(S)	52	461	-	(X)	-	1	1	36
234	109	160	88	822	-	-	1	1	1	37
(S)	(S)	746	24	535	256	-	10	-	19	
28,513	11,026	1,697	810	9,919	209	(X)	1	2	8	
1,216	549	269	119	1,608	-	(X)	(X)	15	14	20
17,012	6,056	112	260	2,524	45	(X)	1	1	3	33
(S)	(S)	(S)	61	632	-	(X)	(X)	-	1	36
92,053	23,277	4,131	2,525	20,828	1,181	-	11	4	4	
468	151	(S)	41	499	-	(X)	1	1	1	22
2,369	1,026	2,315	145	2,697	74	(X)	-	17	13	24
500	219	56	42	782	-	-	-	27	10	25
18,110	4,615	134	210	2,059	802	1	1	1	1	26
32,778	7,564	66	131	1,348	301	(X)	-	1	3	28
8,684	2,102	233	115	1,230	-	(X)	1	1	3	32
390	156	(S)	60	636	-	(X)	(X)	1	1	36
148	54	30	20	310	-	(X)	(X)	1	29	19, 39
323,489	137,185	18,462	17,776	192,133	894	1	5	2	1	
53,342	25,615	3,434	1,834	23,531	124	(X)	2	4	5	20
856	499	56	48	753	-	(X)	-	28	23	22
501	296	306	124	2,702	-	(X)	-	17	20	23
2,564	1,187	3,527	728	9,729	110	(X)	25	15	5	24
569	347	468	115	2,149	-	(X)	-	9	9	25
13,890	5,964	267	730	7,415	327	(X)	1	4	3	26
1,769	1,144	208	311	5,165	-	-	-	21	11	27
34,421	14,165	2,238	2,378	19,612	(S)	(X)	1	3	1	28
68,867	20,335	252	2,233	17,179	161	(X)	14	2	1	29
4,621	2,281	249	520	5,696	-	-	1	7	5	30
85,681	35,689	3,034	1,578	16,025	169	-	12	2	3	32
25,432	12,590	645	1,980	20,869	-	-	1	5	4	33
7,096	4,095	1,111	682	10,627	-	(X)	-	10	4	34
(S)	(S)	629	616	9,077	-	(X)	-	-	6	35
4,773	2,901	679	976	11,270	-	(X)	-	4	3	36
8,779	4,508	822	1,982	20,764	-	(X)	1	2	1	37
607	351	113	179	2,033	-	(X)	-	6	6	38
3,554	1,926	411	741	7,157	(S)	1	-	8	3	19, 39

TABLE 9. Consumption for Heat and Power, by States

Code	State and major group	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels							
			Total cost of purchased fuels ($1,000)	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 barrels)	Cost ($1,000)
		A	B	C	D	E	F	G	H
	Colorado, total	30,221	16,575	460	2,563	29	747	696	1,912
20	Food and kindred products	8,492	5,136	401	2,183	15	350	76	263
26	Paper and allied products	303	131	-	-	-	-	(S)	(S)
28	Chemicals and allied products	1,822	628	34	228	-	-	(S)	(S)
29	Petroleum and coal products	1,215	523	-	-	(S)	(S)	(S)	(S)
32	Stone, clay and glass products	5,391	3,393	20	127	-	-	24	78
36	Electrical machinery	413	105	-	-	-	-	-	-
	Connecticut, total	94,403	43,930	216	2,247	32	1,008	9,313	26,894
20	Food and kindred products	3,303	1,693	-	-	2	69	316	1,214
22	Textile mill products	4,453	2,811	5	59	-	-	815	2,284
23	Apparel and related products	809	395	-	-	-	-	96	277
26	Paper and allied products	4,737	2,846	47	527	-	-	840	2,112
27	Printing and publishing	2,305	892	-	-	-	-	(S)	(S)
28	Chemicals and allied products	6,187	3,386	59	621	-	-	1,097	2,710
30	Rubber and plastics products, n.e.c.	5,035	2,006	-	-	-	-	626	1,627
31	Leather and leather products	375	129	-	-	-	-	31	87
33	Primary metal industries	16,481	8,745	29	356	15	488	1,297	3,809
34	Fabricated metal products	9,572	4,366	27	318	5	153	683	2,293
35	Machinery, except electrical	10,626	4,035	7	93	7	231	768	2,443
36	Electrical machinery	5,483	1,839	8	86	(S)	(S)	356	1,105
37	Transportation equipment	12,145	3,867	(S)	(S)	(S)	(S)	986	2,614
38	Instruments and related products	1,671	601	(S)	(S)	-	-	116	391
19, 39	Miscellaneous manufacturing, including ordnance	4,875	2,252	5	58	(S)	(S)	679	1,792
	Delaware, total	24,039	14,224	151	1,226	(S)	(S)	2,375	7,001
20	Food and kindred products	2,168	1,044	(S)	(S)	-	-	203	786
28	Chemicals and allied products	6,336	4,139	(S)	(S)	-	-	753	1,982
31	Leather and leather products	353	229	(S)	(S)	-	-	80	210
34	Fabricated metal products	522	232	(S)	(S)	-	-	38	123
	District of Columbia, total	3,046	1,182	(S)	(S)	-	-	156	500
20	Food and kindred products	1,198	545	(S)	(S)	-	-	90	294
27	Printing and publishing	1,427	360	(S)	(S)	-	-	(S)	(S)
	Florida, total	83,524	45,226	271	1,993	25	522	8,346	21,104
20	Food and kindred products	13,443	5,694	(S)	(S)	-	-	1,028	2,954
21	Tobacco products	297	91	-	-	-	-	(S)	(S)
24	Lumber and wood products	3,031	2,185	(S)	(S)	-	-	61	265
25	Furniture and fixtures	754	170	-	-	-	-	(S)	(S)
26	Paper and allied products	17,592	15,124	(S)	(S)	-	-	4,245	9,687
27	Printing and publishing	1,436	278	-	-	-	-	(S)	(S)
28	Chemicals and allied products	23,182	11,376	(S)	(S)	23	430	1,219	3,501
32	Stone, clay and glass products	10,559	6,590	(S)	(S)	-	-	1,309	3,118
34	Fabricated metal products	2,547	767	-	-	-	-	(S)	(S)
	Georgia, total	88,877	45,423	485	3,651	6	198	3,317	9,454
20	Food and kindred products	11,223	5,174	7	84	-	-	348	1,254
22	Textile mill products	23,786	7,593	179	1,504	-	-	328	1,209
23	Apparel and related products	1,739	561	(S)	(S)	-	-	15	80
24	Lumber and wood products	5,831	4,466	(S)	(S)	-	-	(S)	(S)
26	Paper and allied products	15,472	13,237	(S)	(S)	-	-	1,906	4,420
28	Chemicals and allied products	8,147	3,503	57	378	-	-	221	629
32	Stone, clay and glass products	7,852	5,682	53	469	(S)	(S)	304	991
34	Fabricated metal products	2,114	912	-	-	2	54	18	71
37	Transportation equipment	3,574	1,001	-	-	-	-	30	119
19, 39	Miscellaneous manufacturing, including ordnance	640	156	-	-	-	-	(S)	(S)

See footnotes at end of table.

and Selected Major Industry Groups: 1962 -Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns– (See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
38,548	9,620	1,733	1,059	13,646	350	16	9	1	11	
8,077	2,135	205	225	3,356	62	18	19	1	18	20
455	102	(S)	15	172	-	(X)	-	1	1	26
1,417	281	70	120	1,194	(S)	1	-	1	1	28
1,874	431	(S)	76	692	-	(X)	-	2	1	29
11,099	2,626	562	159	1,998	-	16	26	7	12	32
139	68	(S)	15	308	-	(X)	(X)	1	20	36
11,300	9,827	3,954	3,387	50,473	367	1	2	4	2	
78	78	332	90	1,610	-	(X)	23	1	14	20
(S)	(S)	149	91	1,642	29	1	3	-	7	22
(S)	(S)	111	20	414	(S)	(X)	11	-	15	23
258	157	(S)	143	1,891	68	1	1	1	2	26
(S)	(S)	169	59	1,413	-	(X)	-	-	20	27
(S)	(S)	(S)	222	2,801	94	1	1	-	1	28
120	145	234	197	3,029	16	(X)	7	14	6	30
(S)	(S)	(S)	13	246	-	(X)	1	-	1	31
4,746	3,550	542	558	7,736	100	1	2	4	2	33
1,382	1,147	455	325	5,206	22	1	6	11	7	34
846	952	316	411	6,591	-	1	7	1	3	35
712	561	64	220	3,644	-	1	3	27	16	36
324	1,106	97	662	8,278	19	-	1	1	1	37
135	117	80	60	1,070	-	-	1	1	1	38
300	245	138	159	2,623	17	1	1	8	5	19, 39
5,061	2,575	(S)	875	9,815	199	8	4	2	8	
(S)	(S)	239	64	1,124	-	-	18	-	13	20
2,622	1,219	89	212	2,197	178	-	1	1	6	28
(S)	(S)	(S)	8	124	(S)	-	5	-	1	31
(S)	(S)	(S)	23	290	-	-	1	-	7	34
359	306	(S)	122	1,864	(S)	-	22	16	13	
253	205	(S)	45	653	(S)	1	20	24	15	20
98	90	186	67	1,067	-	1	-	11	22	27
40,072	14,581	7,026	3,210	38,298	1,942	1	2	1	2	
5,189	1,979	723	559	7,749	13	-	1	1	4	20
(S)	(S)	(S)	13	206	-	(X)	-	-	1	21
(S)	(S)	1,905	38	846	-	-	26	-	10	24
(S)	(S)	165	29	584	-	(X)	-	-	21	25
11,895	3,997	344	240	2,468	1,695	-	1	1	1	26
(S)	(S)	125	72	1,158	-	(X)	-	-	10	27
18,553	6,232	(S)	1,361	11,806	206	-	1	1	2	28
2,782	1,514	1,106	339	3,969	24	-	1	1	3	32
444	270	475	101	1,780	-	(X)	-	19	11	34
68,661	24,907	7,213	4,274	43,454	2,154	1	2	1	2	
6,096	2,889	947	455	6,049	29	12	10	1	9	20
12,144	4,324	556	1,810	16,193	143	1	7	3	1	22
600	298	121	71	1,178	-	-	1	15	8	23
481	204	3,905	84	1,365	-	-	-	20	17	24
23,905	7,528	207	246	2,235	1,892	-	1	1	4	26
5,301	2,259	237	531	4,644	82	1	14	1	2	28
11,472	3,763	454	201	2,170	8	1	2	2	6	32
1,261	572	215	93	1,202	-	(X)	1	9	8	34
2,146	748	134	315	2,573	-	(X)	1	1	1	37
117	62	88	(S)	(S)	-	(X)	-	1	-	19, 39

TABLE 9. Consumption for Heat and Power, by States

Code	State and major group	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels						
			Total cost of purchased fuels ($1,000)	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 barrels)	Cost ($1,000)
		A	B	C	D	E	F	G	H
	Hawaii, total	7,103	3,238	(S)	(S)	(S)	(S)	816	2,653
	Idaho, total	25,198	12,105	154	1,395	36	805	303	1,551
20	Food and kindred products	6,359	4,833	108	1,015	8	237	(S)	(S)
24	Lumber and wood products	4,097	2,443	(S)	(S)	-	-	(S)	(S)
28	Chemicals and allied products	8,304	823	(S)	(S)	-	-	82	351
	Illinois, total	418,499	240,694	7,353	47,334	2,098	48,398	12,330	48,169
20	Food and kindred products	53,304	30,426	2,114	13,343	7	194	1,216	5,165
23	Apparel and related products	1,916	631	18	135	-	-	47	202
24	Lumber and wood products	2,354	1,150	22	164	-	-	58	270
25	Furniture and fixtures	3,386	1,591	23	222	-	-	140	569
26	Paper and allied products	13,001	7,639	491	3,037	-	-	421	1,696
27	Printing and publishing	10,495	2,786	(S)	(S)	-	-	273	1,034
28	Chemicals and allied products	36,147	20,316	1,223	7,136	22	213	899	3,451
29	Petroleum and coal products	16,068	8,165	279	1,523	-	-	204	736
30	Rubber and plastics products, n.e.c.	7,436	2,278	35	222	-	-	235	872
32	Stone, clay and glass products	30,972	22,443	1,104	7,375	7	140	940	3,637
33	Primary metal industries	134,392	97,778	725	5,116	2,034	47,167	4,258	15,500
34	Fabricated metal products	28,627	13,083	161	1,166	8	98	1,010	4,327
35	Machinery, except electrical	34,223	13,800	562	3,830	17	443	983	4,220
36	Electrical machinery	22,499	9,033	248	1,736	(S)	(S)	845	3,325
37	Transportation equipment	10,198	3,600	145	854	3	103	273	992
38	Instruments and related products	4,675	1,956	36	251	(S)	(S)	225	913
19, 39	Miscellaneous manufacturing, including ordnance	5,364	2,276	82	557	-	-	193	876
	Indiana, total	241,505	129,261	4,425	29,389	340	4,978	9,646	34,382
20	Food and kindred products	20,152	10,938	668	4,304	-	-	286	1,201
23	Apparel and related products	505	234	(S)	(S)	-	-	20	89
24	Lumber and wood products	2,133	903	39	271	-	-	17	93
25	Furniture and fixtures	3,128	1,211	103	440	-	-	81	374
26	Paper and allied products	5,428	2,907	290	1,848	-	-	116	456
27	Printing and publishing	2,259	701	8	64	-	-	64	265
28	Chemicals and allied products	14,312	8,207	565	3,557	49	326	159	582
29	Petroleum and coal products	7,774	5,674	26	160	-	-	(S)	(S)
30	Rubber and plastics products, n.e.c.	5,604	1,947	147	997	-	-	70	288
32	Stone, clay and glass products	24,744	16,909	726	5,236	31	771	425	1,840
33	Primary metal industries	95,657	55,202	755	5,257	233	3,221	6,547	22,366
34	Fabricated metal products	10,422	4,584	84	509	(S)	(S)	283	1,208
35	Machinery, except electrical	9,911	3,967	136	891	9	246	270	946
36	Electrical machinery	14,543	4,831	298	1,924	-	-	210	734
37	Transportation equipment	21,530	9,412	495	3,329	17	378	373	1,437
38	Instruments and related products	818	420	(S)	(S)	-	-	27	116
	Iowa, total	72,754	40,343	1,565	10,759	87	2,544	745	3,015
20	Food and kindred products	25,991	14,893	729	5,021	(S)	(S)	222	927
24	Lumber and wood products	585	320	(S)	(S)	-	-	(S)	(S)
28	Chemicals and allied products	4,384	2,062	99	620	-	-	(S)	(S)
34	Fabricated metal products	1,370	587	(S)	(S)	3	62	17	81
35	Machinery, except electrical	6,811	4,402	136	840	36	1,125	57	255
36	Electrical machinery	2,705	864	(S)	(S)	-	-	75	287

See footnotes at end of table.

and Selected Major Industry Groups: 1962–Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns–(See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
129	112	427	273	3,865	185	-	3	9	3	
18,351	7,478	876	2,416	13,093	131	4	22	6	2	
7,603	3,211	108	147	1,526	30	1	-	12	8	20
1,622	910	552	178	1,654	9	-	-	19	13	24
(S)	(S)	-	1,622	7,481	-	-	1	1	1	28
186,072	82,436	14,357	14,028	177,805	2,353	1	2	1	1	
22,414	9,874	1,850	1,693	22,878	474	2	10	6	3	20
211	160	134	61	1,285	-	7	20	19	13	23
237	137	579	50	1,204	(S)	12	19	1	10	24
736	528	272	101	1,795	-	5	11	11	7	25
5,534	2,013	893	390	5,362	304	1	4	6	3	26
1,719	952	687	457	7,709	-	-	8	12	9	27
17,650	8,096	1,420	1,339	15,831	237	1	4	4	9	28
16,192	5,381	525	878	7,903	189	1	4	2	2	29
2,036	906	278	380	5,158	-	1	8	13	16	30
22,719	9,675	1,616	714	8,529	226	2	4	1	3	32
67,853	28,793	1,202	3,503	36,614	665	1	2	1	2	33
9,596	5,727	1,765	933	15,544	32	1	6	8	4	34
7,881	3,960	1,347	1,503	20,423	38	1	9	4	3	35
5,093	3,064	869	987	13,466	106	1	4	10	5	36
2,296	1,341	310	561	6,598	13	1	4	11	3	37
1,437	725	66	197	2,719	9	1	8	14	9	38
900	515	328	180	3,088	52	5	11	9	8	19, 39
129,323	53,190	7,322	9,854	112,244	2,699	1	4	1	1	
7,516	3,464	1,969	673	9,214	139	8	10	6	9	20
(S)	(S)	(S)	16	271	-	-	11	-	11	23
180	102	437	77	1,230	(S)	29	11	10	23	24
444	277	120	116	1,917	(S)	7	29	1	8	25
1,085	551	52	217	2,521	135	1	1	2	1	26
353	211	161	134	1,558	-	16	19	28	13	27
6,362	2,957	785	613	6,105	327	3	1	3	2	28
8,860	3,251	69	204	2,100	537	6	-	4	13	29
1,131	576	86	308	3,657	-	1	14	1	3	30
21,973	8,448	614	674	7,835	68	2	18	1	3	32
64,202	23,912	446	3,719	40,455	1,437	1	1	1	1	33
3,831	2,163	668	382	5,838	(S)	2	7	9	5	34
2,579	1,578	306	446	5,944	-	6	6	8	5	35
3,077	1,484	689	977	9,712	(S)	1	1	5	1	36
6,173	3,455	813	1,160	12,118	31	1	5	18	2	37
616	256	(S)	31	398	(S)	-	1	1	1	38
51,153	18,801	5,224	2,566	32,411	667	4	5	5	4	
19,383	6,950	1,964	776	11,098	228	6	9	9	10	20
237	108	117	16	265	(S)	-	-	17	11	24
1,925	949	304	316	2,322	52	1	-	2	4	28
808	389	(S)	47	783	-	-	1	5	3	34
4,232	1,693	489	129	2,409	108	1	4	7	5	35
1,147	481	95	132	1,841	-	-	1	1	1	36

TABLE 9. Consumption for Heat and Power, by States

Code	State and major group	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels						
			Total cost of purchased fuels ($1,000)	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 barrels)	Cost ($1,000)
		A	B	C	D	E	F	G	H
	Kansas, total	49,608	26,318	190	1,105	5	164	427	1,177
20	Food and kindred products	8,992	4,167	(S)	(S)	-	-	112	309
26	Paper and allied products	660	329	-	-	-	-	(S)	(S)
27	Printing and publishing	372	103	-	-	-	-	(S)	(S)
28	Chemicals and allied products	10,545	6,508	160	910	-	-	123	359
29	Petroleum and coal products	11,000	6,974	-	-	-	-	(S)	(S)
32	Stone, clay and glass products	7,281	5,082	29	187	-	-	54	135
33	Primary metal industries	1,213	438	(S)	(S)	3	90	19	72
34	Fabricated metal products	1,101	419	-	-	(S)	(S)	(S)	(S)
35	Machinery, except electrical	1,496	630	-	-	(S)	(S)	(S)	(S)
36	Electrical machinery	664	172	-	-	-	-	(S)	(S)
37	Transportation equipment	4,361	945	(S)	(S)	-	-	43	122
	Kentucky, total	142,412	39,321	1,842	9,674	(S)	(S)	402	1,715
20	Food and kindred products	9,571	5,539	474	2,895	(S)	(S)	52	240
21	Tobacco products	2,221	1,008	51	357	-	-	57	214
22	Textile mill products	462	142	(S)	(S)	-	-	(S)	(S)
23	Apparel and related products	905	374	(S)	(S)	-	-	(S)	(S)
24	Lumber and wood products	2,190	1,336	(S)	(S)	-	-	(S)	(S)
25	Furniture and fixtures	618	234	13	117	-	-	(S)	(S)
26	Paper and allied products	765	293	-	-	-	-	11	53
27	Printing and publishing	757	227	-	-	-	-	(S)	(S)
28	Chemicals and allied products	81,704	6,647	694	3,037	(S)	(S)	37	156
29	Petroleum and coal products	2,870	1,776	(S)	(S)	-	-	(S)	(S)
31	Leather and leather products	274	144	9	105	-	-	-	-
32	Stone, clay and glass products	4,776	3,138	164	725	-	-	12	53
33	Primary metal industries	21,683	13,607	97	688	(S)	(S)	150	568
34	Fabricated metal products	3,060	1,607	30	170	(S)	(S)	20	87
35	Machinery, except electrical	3,617	1,562	43	212	14	485	(S)	(S)
36	Electrical machinery	4,906	1,108	98	514	(S)	(S)	(S)	(S)
37	Transportation equipment	1,028	339	33	185	-	-	(S)	(S)
	Louisiana, total	135,762	101,825	(S)	(S)	(S)	(S)	79	363
20	Food and kindred products	8,456	5,323	-	-	-	-	(S)	(S)
24	Lumber and wood products	3,135	1,801	-	-	-	-	(S)	(S)
26	Paper and allied products	13,481	10,468	-	-	-	-	(S)	(S)
28	Chemicals and allied products	42,984	30,924	(S)	(S)	-	-	(S)	(S)
29	Petroleum and coal products	44,835	36,618	-	-	-	-	-	-
32	Stone, clay and glass products	6,796	4,687	-	-	-	-	26	111
33	Primary metal industries	11,093	9,901	-	-	4	115	-	-
37	Transportation equipment	920	254	-	-	-	-	(S)	(S)
	Maine, total	45,172	29,687	703	8,463	(S)	(S)	6,340	17,787
20	Food and kindred products	4,673	2,558	5	89	-	-	552	1,991
22	Textile mill products	3,711	1,716	9	120	-	-	440	1,210
24	Lumber and wood products	3,131	1,943	-	-	-	-	43	203
26	Paper and allied products	26,506	19,649	676	8,054	-	-	4,367	11,507
31	Leather and leather products	1,881	814	5	79	(S)	(S)	218	674
37	Transportation equipment	562	226	5	65	-	-	38	147
	Maryland, total	94,231	51,292	1,515	11,193	(S)	(S)	7,385	21,557
20	Food and kindred products	9,364	5,342	172	1,518	-	-	774	2,447
22	Textile mill products	818	179	6	62	-	-	(S)	(S)
23	Apparel and related products	1,038	410	(S)	(S)	-	-	29	138
25	Furniture and fixtures	221	97	(S)	(S)	-	-	(S)	(S)
26	Paper and allied products	5,050	3,233	384	2,425	-	-	104	310
27	Printing and publishing	2,061	282	(S)	(S)	-	-	16	56
28	Chemicals and allied products	11,584	6,012	314	1,911	-	-	921	2,956
30	Rubber and plastics products, n.e.c.	2,575	916	64	384	-	-	143	382
31	Leather and leather products	183	111	9	80	-	-	(S)	(S)
33	Primary metal industries	31,280	19,163	(S)	(S)	(S)	(S)	3,270	9,126
34	Fabricated metal products	3,260	1,369	(S)	(S)	(S)	(S)	99	372
35	Machinery, except electrical	1,917	596	(S)	(S)	(S)	(S)	88	269
36	Electrical machinery	2,025	695	(S)	(S)	(S)	(S)	86	276
37	Transportation equipment	6,045	2,331	(S)	(S)	-	-	441	1,211
39 19	Miscellaneous manufacturing, including ordnance	851	238	(S)	(S)	-	-	50	137

See footnotes at end of table.

and Selected Major Industry Groups: 1962–Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns– (See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
87,681	21,646	2,226	2,259	23,290	399	1	7	3	2	
10,131	3,179	678	388	4,825	(S)	-	23	19	10	20
1,276	293	(S)	25	331	(S)	(X)	-	1	3	26
(S)	(S)	67	16	269	-	(X)	-	-	19	27
20,565	4,691	548	495	4,037	262	1	1	1	1	28
29,641	6,828	91	485	4,026	33	(X)	-	4	2	29
19,153	4,508	252	207	2,199	88	1	1	1	6	32
864	266	(S)	74	775	-	-	1	15	7	33
503	250	151	40	682	-	(X)	-	8	9	34
(S)	(S)	191	62	866	-	(X)	-	-	15	35
354	134	(S)	42	492	-	(X)	-	1	2	36
2,873	744	78	297	3,416	-	-	1	1	2	37
36,675	16,189	(S)	21,647	103,091	147	1	4	3	1	
3,032	1,645	757	270	4,032	20	1	13	7	7	20
617	301	136	93	1,213	-	17	1	1	4	21
198	95	(S)	23	320	-	-	-	21	16	22
(S)	(S)	(S)	27	531	-	-	-	-	11	23
158	113	1,014	39	854	(S)	-	-	27	16	24
167	60	(S)	26	384	(S)	1	-	1	10	25
377	235	(S)	36	472	-	(X)	1	1	1	26
206	105	92	37	530	-	(X)	-	1	6	27
7,042	3,302	132	18,912	75,057	74	1	1	12	1	28
2,981	1,319	(S)	150	1,094	-	-	-	2	1	29
(S)	(S)	(S)	6	130	-	19	(X)	-	15	31
4,659	1,897	463	155	1,638	28	8	1	3	3	32
11,969	4,279	(S)	1,073	8,076	(S)	1	1	1	1	33
2,242	1,200	134	110	1,453	(S)	1	1	4	3	34
1,073	595	236	185	2,055	-	1	-	5	11	35
915	486	(S)	381	3,798	-	1	-	1	1	36
191	109	(S)	57	689	-	1	-	1	3	37
409,340	93,517	7,784	4,150	33,937	7,962	-	19	1	1	
17,517	4,824	485	224	3,133	89	(X)	-	4	6	20
979	366	1,307	72	1,334	21	(X)	-	16	12	24
46,222	9,871	567	339	3,013	1,216	(X)	-	1	4	26
130,697	29,018	1,886	1,670	12,060	2,119	-	-	1	2	28
145,774	34,934	1,684	1,291	8,217	415	(X)	(X)	1	1	29
13,200	3,329	1,247	207	2,109	(S)	(X)	9	1	5	32
51,050	9,752	(S)	155	1,192	(S)	(X)	(X)	1	2	33
(S)	(S)	172	49	666	-	(X)	-	-	6	37
(S)	(S)	3,072	1,380	15,485	1,457	1	3	19	3	
(S)	(S)	318	108	2,115	-	1	21	25	22	20
-	-	386	147	1,995	50	1	6	(X)	6	22
(S)	(S)	1,719	71	1,188	(S)	(X)	25	-	12	24
-	-	88	820	6,857	1,398	1	1	(X)	1	26
(S)	(S)	52	52	1,067	(S)	1	3	-	5	31
-	-	(S)	31	336	(S)	1	1	(X)	1	37
16,416	10,892	(S)	3,378	42,939	1,443	1	1	2	2	
1,170	988	389	239	4,022	31	1	9	12	6	20
-	-	(S)	(S)	(S)	(S)	1	-	(X)	-	22
144	100	160	30	628	-	-	15	30	14	23
(S)	(S)	(S)	7	124	-	-	-	-	8	25
844	463	(S)	128	1,817	(S)	-	1	1	2	26
93	103	120	(S)	(S)	-	1	1	19	-	27
1,812	975	170	550	5,572	6	1	2	1	2	28
127	105	(S)	130	1,659	(S)	1	8	19	4	30
(S)	(S)	(S)	3	72	(S)	1	-	-	1	31
6,046	3,902	941	1,070	12,117	1,080	-	1	1	1	33
874	794	170	116	1,891	-	-	8	6	4	34
171	168	66	87	1,321	-	-	1	6	5	35
276	267	16	92	1,330	-	-	7	1	4	36
916	686	430	313	3,714	-	-	1	1	1	37
(S)	(S)	(S)	48	613	(S)	-	1	-	5	39 19

TABLE 9. Consumption for Heat and Power, by States

Code	State and major group	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels: Total cost of purchased fuels ($1,000)	Bituminous coal, lignite, and anthracite: Quantity (1,000 tons)	Bituminous coal, lignite, and anthracite: Cost ($1,000)	Coke and breeze: Quantity (1,000 tons)	Coke and breeze: Cost ($1,000)	Fuel oil (distillate and residual): Quantity (1,000 barrels)	Fuel oil (distillate and residual): Cost ($1,000)
		A	B	C	D	E	F	G	H
	Massachusetts, total.....	153,889	70,527	671	7,468	28	870	13,799	41,732
20	Food and kindred products...	11,723	5,978	(S)	(S)	2	53	1,317	3,967
22	Textile mill products.....	14,845	7,433	44	465	-	-	1,442	4,321
23	Apparel and related products	3,070	920	-	-	-	-	50	205
25	Furniture and fixtures.....	1,762	755	17	225	-	-	79	309
26	Paper and allied products...	20,272	10,984	201	2,195	-	-	2,934	8,026
27	Printing and publishing.....	3,551	1,042	-	-	-	-	124	433
28	Chemicals and allied products.....	13,555	6,482	(S)	(S)	-	-	1,253	3,492
29	Petroleum and coal products.	2,259	1,276	(S)	(S)	-	-	362	877
30	Rubber and plastics products, n.e.c.....	11,415	3,479	43	464	-	-	665	1,851
31	Leather and leather products	4,300	1,906	(S)	(S)	-	-	408	1,138
33	Primary metal industries....	11,329	5,917	21	144	17	536	810	2,796
34	Fabricated metal products...	8,947	4,004	25	63	2	63	640	2,352
35	Machinery, except electrical	11,565	5,704	40	482	7	212	1,334	3,778
36	Electrical machinery.....	13,607	3,872	65	670	-	-	594	1,917
37	Transportation equipment....	4,039	1,451	-	-	(S)	(S)	330	992
38	Instruments and related products.....	3,406	1,459	-	-	-	-	338	931
39 19	Miscellaneous manufacturing, including ordnance.....	5,486	2,182	7	101	-	-	358	1,269
	Michigan, total.....	394,438	229,488	9,301	77,912	1,269	30,000	6,699	25,731
20	Food and kindred products...	21,974	12,870	417	4,136	5	112	517	2,000
22	Textile mill products.....	596	157	(S)	(S)	-	-	(S)	(S)
23	Apparel and related products	1,547	512	16	141	-	-	13	51
24	Lumber and wood products....	2,947	1,607	13	150	-	-	(S)	(S)
25	Furniture and fixtures.....	2,854	1,372	42	357	(S)	(S)	48	176
26	Paper and allied products...	26,403	18,947	1,912	16,091	-	-	412	1,335
27	Printing and publishing.....	3,997	937	(S)	(S)	-	-	19	73
28	Chemicals and allied products.....	44,589	31,290	2,679	22,085	-	-	339	1,259
29	Petroleum and coal products.	7,224	3,638	(S)	(S)	-	-	(S)	(S)
30	Rubber and plastics products, n.e.c.....	6,067	2,434	183	1,460	-	-	94	408
32	Stone, clay and glass products.....	18,417	13,603	996	7,774	9	293	368	1,376
33	Primary metal industries....	109,708	80,731	985	8,064	1,146	26,350	3,051	11,658
34	Fabricated metal products...	22,655	9,406	141	1,296	3	99	373	1,648
35	Machinery, except electrical	22,266	8,485	107	912	7	224	466	1,944
36	Electrical machinery.....	5,251	2,125	35	330	-	-	56	229
37	Transportation equipment....	92,323	38,365	1,695	14,367	98	2,907	713	2,653
38	Instruments and related products.....	1,360	382	(S)	(S)	-	-	17	66
	Minnesota, total.....	71,706	38,066	946	9,033	18	493	1,775	6,912
20	Food and kindred products...	24,178	14,265	348	2,710	7	170	836	3,065
22	Textile mill products.....	331	134	(S)	(S)	-	-	(S)	(S)
23	Apparel and related products	301	107	-	-	(S)	(S)	(S)	(S)
26	Paper and allied products...	11,503	7,079	449	4,839	-	-	36	148
27	Printing and publishing.....	2,790	895	(S)	(S)	-	-	(S)	(S)
28	Chemicals and allied products.....	2,772	1,077	27	248	-	-	72	294
29	Petroleum and coal products.	1,743	586	(S)	(S)	-	-	41	151
32	Stone, clay and glass products.....	6,168	3,703	(S)	(S)	5	142	115	508
33	Primary metal industries....	3,696	2,526	(S)	(S)	3	114	271	1,036
34	Fabricated metal products...	3,793	1,705	(S)	(S)	(S)	(S)	70	351
35	Machinery, except electrical	4,907	1,902	11	125	(S)	(S)	83	352
37	Transportation equipment....	1,625	802	-	-	-	-	65	234
38	Instruments and related products.....	1,098	353	-	-	-	-	(S)	(S)
39 19	Miscellaneous manufacturing, including ordnance.....	1,453	579	(S)	(S)	-	-	62	216
	Mississippi, total.....	40,569	23,138	(S)	(S)	(S)	(S)	77	363
20	Food and kindred products...	5,628	2,438	(S)	(S)	-	-	12	82
23	Apparel and related products	899	253	(S)	(S)	-	-	(S)	(S)
24	Lumber and wood products....	4,897	3,013	(S)	(S)	-	-	19	103
26	Paper and allied products...	9,268	7,647	-	-	-	-	(S)	(S)
28	Chemicals and allied products.....	8,548	4,363	-	-	-	-	(S)	(S)
34	Fabricated metal products...	918	326	-	-	-	-	(S)	(S)
35	Machinery, except electrical	314	120	-	-	(S)	(S)	-	-
36	Electrical machinery.....	678	274	-	-	-	-	-	-
37	Transportation equipment....	747	106	-	-	-	-	-	-

See footnotes at end of table.

and Selected Major Industry Groups: 1962–Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns– (See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
12,163	10,054	10,403	5,322	83,362	551	9	4	4	2	
1,015	873	864	348	5,745	40	-	5	24	6	20
699	524	2,123	450	7,412	26	1	3	4	4	22
(S)	(S)	665	117	2,150	-	(X)	15	-	14	23
(S)	(S)	141	49	1,007	7	27	16	-	13	25
287	239	524	625	9,288	254	1	5	17	5	26
306	280	329	141	2,509	-	(X)	23	29	17	27
1,782	1,069	971	540	7,073	8	-	14	8	20	28
(S)	(S)	106	73	983	-	-	17	-	6	29
1,033	534	630	489	7,936	(S)	1	2	2	5	30
(S)	(S)	588	106	2,394	19	-	6	-	5	31
2,140	2,247	194	333	5,412	(S)	1	16	4	4	33
1,146	1,037	489	263	4,943	25	1	8	8	8	34
629	756	476	369	5,861	108	2	6	7	7	35
773	828	457	726	9,735	-	1	6	4	4	36
91	117	340	182	2,588	-	(X)	4	1	2	37
774	476	52	110	1,947	26	(X)	2	1	2	38
264	261	551	206	3,304	-	1	17	16	8	39 19
206,129	71,806	24,039	13,352	164,950	4,005	2	5	2	1	
7,829	4,446	2,176	545	9,104	65	13	18	12	7	20
142	96	(S)	30	439	-	-	-	1	11	22
176	114	206	69	1,035	-	1	1	18	7	23
329	213	999	73	1,340	-	7	-	14	10	24
794	526	298	83	1,482	-	3	6	8	6	25
1,496	740	781	638	7,456	1,117	5	1	22	10	26
(S)	(S)	348	174	3,060	-	-	27	-	26	27
13,692	5,577	2,369	1,247	13,299	1,950	1	2	2	3	28
2,532	1,208	2,009	340	3,586	-	-	-	6	3	29
712	448	118	304	3,633	105	1	3	9	12	30
5,225	2,793	1,367	354	4,814	295	1	4	6	3	32
132,786	32,168	2,491	2,591	28,977	352	7	11	2	2	33
8,082	5,019	1,344	843	13,249	7	22	15	8	5	34
6,353	3,965	1,440	926	13,781	29	1	5	8	3	35
2,165	1,385	181	218	3,126	6	3	9	4	8	36
19,686	10,807	7,631	4,724	53,958	77	1	5	2	1	37
426	237	(S)	86	978	-	-	1	1	1	38
43,654	17,109	4,519	2,463	33,640	663	4	6	5	3	
18,938	6,929	1,391	688	9,913	111	5	13	8	5	20
219	92	-	17	197	-	-	-	1	1	22
(S)	(S)	83	9	194	-	(X)	-	-	26	23
6,365	2,062	(S)	456	4,424	467	1	1	1	1	26
835	516	115	89	1,895	(S)	-	-	25	17	27
552	259	276	142	1,695	-	1	27	12	9	28
962	395	(S)	114	1,157	(S)	-	1	11	1	29
5,304	1,852	641	175	2,465	-	-	10	16	8	32
2,622	1,076	80	75	1,170	(S)	-	4	27	21	33
1,444	823	474	134	2,088	-	-	26	16	11	34
2,035	1,039	363	183	3,005	-	16	14	12	7	35
1,103	468	100	60	823	23	(X)	1	24	7	37
(S)	(S)	54	62	745	-	(X)	1	1	1	38
578	245	64	74	874	(S)	-	1	16	6	39 19
58,538	19,104	(S)	1,699	17,431	729	-	11	3	3	
3,743	1,687	653	239	3,190	(S)	-	24	23	14	20
312	172	59	36	646	-	-	-	12	16	23
1,482	569	2,337	110	1,884	7	-	29	11	12	24
26,169	7,599	(S)	158	1,621	705	(X)	-	1	3	26
13,390	4,315	(S)	668	4,185	16	(X)	-	1	1	28
415	210	92	45	592	-	(X)	-	14	20	34
(S)	(S)	70	13	194	-	(X)	(X)	-	5	35
544	224	(S)	33	404	-	(X)	(X)	1	1	36
246	105	(S)	65	641	-	(X)	(X)	1	1	37

TABLE 9. Consumption for Heat and Power, by States

Code	State and major group	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels							
			Total cost of purchased fuels ($1,000)	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 barrels)	Cost ($1,000)
		A	B	C	D	E	F	G	H
	Missouri, total	98,056	48,390	1,737	9,990	44	1,151	1,165	4,161
20	Food and kindred products	18,045	9,288	354	1,804	-	-	256	880
23	Apparel and related products	1,500	552	(S)	(S)	-	-	11	58
24	Lumber and wood products	1,987	1,093	(S)	(S)	-	-	24	120
26	Paper and allied products	2,180	888	(S)	(S)	-	-	53	175
27	Printing and publishing	2,416	516	(S)	(S)	-	-	16	73
28	Chemicals and allied products	11,580	7,397	551	3,116	(S)	(S)	166	579
29	Petroleum and coal products	1,506	1,222	-	-	(S)	(S)	20	69
31	Leather and leather products	1,476	442	23	159	-	-	(S)	(S)
32	Stone, clay and glass products	18,445	12,611	661	4,021	(S)	(S)	117	466
33	Primary metal industries	11,886	4,461	(S)	(S)	41	1,044	157	480
34	Fabricated metal products	4,791	2,091	-	-	-	-	47	210
35	Machinery, except electrical	3,820	1,526	(S)	(S)	(S)	(S)	68	275
36	Electrical machinery	3,744	1,030	(S)	(S)	-	-	34	118
37	Transportation equipment	8,763	3,041	108	599	2	63	100	333
38	Instruments and related products	371	126	(S)	(S)	-	-	(S)	(S)
39, 19	Miscellaneous manufacturing, including ordnance	2,268	1,015	(S)	(S)	-	-	59	167
	Montana, total	18,763	9,805	117	802	(S)	(S)	(S)	(S)
24	Lumber and wood products	2,867	1,588	-	-	-	-	(S)	(S)
27	Printing and publishing	101	60	-	-	-	-	-	-
29	Petroleum and coal products	1,277	575	-	-	-	-	-	-
	Nebraska, total	20,177	11,294	161	1,003	10	291	171	664
20	Food and kindred products	9,657	5,351	111	633	4	105	80	314
27	Printing and publishing	531	180	(S)	(S)	-	-	-	-
28	Chemicals and allied products	3,139	2,111	-	-	-	-	27	98
34	Fabricated metal products	650	272	(S)	(S)	(S)	(S)	(S)	(S)
35	Machinery, except electrical	397	191	-	-	(S)	(S)	(S)	(S)
36	Electrical machinery	502	146	-	-	-	-	14	53
37	Transportation equipment	399	155	-	-	-	-	(S)	(S)
	Nevada, total	8,133	4,281	(S)	(S)	3	98	323	1,274
32	Stone, clay and glass products	2,270	1,712	-	-	-	-	283	966
	New Hampshire, total	23,061	12,521	415	4,533	(S)	(S)	1,871	5,807
22	Textile mill products	4,176	2,188	(S)	(S)	-	-	613	1,794
24	Lumber and wood products	1,244	738	-	-	-	-	63	299
26	Paper and allied products	9,037	6,080	374	4,056	-	-	592	1,718
27	Printing and publishing	231	113	-	-	-	-	(S)	(S)
31	Leather and leather products	2,051	1,002	13	155	-	-	164	500
32	Stone, clay and glass products	654	390	(S)	(S)	-	-	102	277
33	Primary metal industries	457	230	(S)	(S)	-	-	31	96
35	Machinery, except electrical	1,422	449	6	78	(S)	(S)	73	260
36	Electrical machinery	1,334	333	-	-	-	-	59	178
	New Jersey, total	239,047	132,957	1,759	16,197	262	4,325	27,484	73,809
20	Food and kindred products	18,587	10,691	147	1,347	-	-	2,290	6,293
22	Textile mill products	9,281	5,873	31	232	-	-	(S)	(S)
23	Apparel and related products	4,231	1,554	(S)	(S)	-	-	123	585
24	Lumber and wood products	1,085	606	(S)	(S)	-	-	58	176
25	Furniture and fixtures	910	451	-	-	-	-	44	163
26	Paper and allied products	16,795	10,083	347	3,303	100	806	2,046	4,955
27	Printing and publishing	4,608	1,409	(S)	(S)	-	-	177	618
28	Chemicals and allied products	53,854	33,501	814	7,415	26	258	6,519	16,996
29	Petroleum and coal products	16,266	12,190	(S)	(S)	-	-	5,244	11,631
30	Rubber and plastics products, n.e.c.	9,318	3,596	100	914	-	-	635	1,937
31	Leather and leather products	1,026	437	-	-	-	-	131	345
32	Stone, clay and glass products	23,105	15,758	79	667	16	389	2,183	6,846
33	Primary metal industries	25,023	14,721	63	613	112	2,624	2,744	7,787
34	Fabricated metal products	14,634	6,311	30	298	6	198	771	2,695
35	Machinery, except electrical	9,919	4,504	30	269	(S)	(S)	747	2,405
36	Electrical machinery	15,032	5,035	33	329	-	-	992	2,780
37	Transportation equipment	7,601	3,023	(S)	(S)	(S)	(S)	666	1,820
38	Instruments and related products	3,677	1,574	(S)	(S)	-	-	232	719
39, 19	Miscellaneous manufacturing, including ordnance	3,959	1,595	32	271	(S)	(S)	181	662

See footnotes at end of table.

and Selected Major Industry Groups: 1962–Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns– (See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
74,699	26,674	6,414	3,862	49,666	562	1	3	3	2	
14,703	4,848	1,756	600	8,757	155	4	14	11	5	20
264	156	311	45	948	-	-	1	13	8	23
599	286	645	56	894	(S)	-	25	1	26	24
1,732	579	113	96	1,292	7	-	1	1	2	26
820	332	109	126	1,900	-	-	27	15	13	27
9,080	3,411	290	383	4,183	245	1	1	1	1	28
4,571	1,113	(S)	23	284	110	(X)	1	1	4	29
148	85	158	50	1,034	(S)	6	-	1	6	31
20,897	7,267	836	527	5,834	40	1	4	5	2	32
8,772	2,804	87	666	7,425	-	-	8	17	11	33
2,699	1,442	439	169	2,700	-	(X)	1	9	5	34
1,835	1,005	200	157	2,294	(S)	-	15	10	6	35
1,777	726	152	192	2,714	-	-	1	3	11	36
3,382	1,395	651	511	5,722	-	1	1	5	2	37
151	81	(S)	16	245	-	-	-	1	12	38
										39
2,231	667	136	103	1,253	-	-	1	5	6	19
20,122	5,856	1,079	2,445	8,958	51	1	-	2	2	
549	294	885	104	1,279	37	(X)	-	1	16	24
(S)	(S)	(S)	(S)	(S)	-	(X)	(X)	-	-	27
1,866	575	-	84	702	-	(X)	(X)	1	1	29
19,595	6,339	2,997	820	8,883	13	1	6	1	4	
7,717	2,575	1,724	362	4,306	13	1	13	1	7	20
(S)	(S)	(S)	(S)	(S)	-	-	1	-	-	27
3,270	1,150	863	147	1,028	-	(X)	1	1	1	28
401	181	(S)	31	378	-	-	-	11	11	34
160	64	86	14	206	-	(X)	-	1	15	35
292	90	(S)	39	356	-	(X)	1	1	1	36
198	89	52	15	244	-	(X)	-	1	8	37
3,267	1,624	386	717	3,852	8	-	7	5	6	
1,489	732	(S)	46	558	-	(X)	1	10	2	32
(S)	(S)	1,535	767	10,540	194	1	3	-	3	
(S)	(S)	250	141	1,988	28	-	5	-	9	22
-	-	439	26	506	(S)	(X)	27	(X)	18	24
(S)	(S)	(S)	284	2,957	163	1	1	-	7	26
(S)	(S)	(S)	7	118	-	(X)	-	-	9	27
(S)	(S)	340	55	1,049	-	1	8	-	10	31
(S)	(S)	(S)	18	264	-	-	4	-	4	32
(S)	(S)	52	13	227	-	-	1	-	1	33
125	63	(S)	56	973	(S)	1	15	1	6	35
35	55	100	70	1,001	-	(X)	11	1	10	56
31,663	21,080	17,546	8,526	106,090	1,339	1	2	2	2	
2,289	1,576	1,475	556	7,896	56	3	3	10	4	20
652	622	652	187	3,408	17	1	-	23	18	22
207	137	801	143	2,677	-	-	17	29	11	23
(S)	(S)	390	23	479	-	-	11	-	15	24
90	63	225	25	459	-	(X)	12	1	9	25
291	314	705	589	6,712	449	1	1	1	1	26
316	385	404	194	3,199	-	-	16	29	22	27
5,113	2,610	6,222	2,016	20,353	361	1	2	2	2	28
387	224	307	453	4,076	243	-	1	1	4	29
488	423	322	389	5,722	-	1	9	19	7	30
(S)	(S)	86	65	589	-	(X)	3	-	9	31
12,312	6,574	1,282	580	7,347	25	1	7	2	7	32
3,234	2,883	814	879	10,302	120	1	1	6	3	33
2,311	1,925	1,195	607	8,323	(S)	10	9	9	11	34
1,486	1,300	497	347	5,415	18	1	10	4	8	35
1,581	1,224	702	789	9,997	47	1	4	1	5	36
338	364	412	386	4,578	(S)	-	2	1	5	37
131	153	679	153	2,103	-	-	7	7	5	38
										39
391	277	375	140	2,364	-	1	11	4	6	19

TABLE 9. Consumption for Heat and Power, by States

Code	State and major group	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels							
			Total cost of purchased fuels ($1,000)	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 barrels)	Cost ($1,000)
		A	B	C	D	E	F	G	H
	New Mexico, total	5,683	3,223	-	-	-	-	(S)	(S)
20	Food and kindred products	874	295	-	-	-	-	(S)	(S)
28	Chemicals and allied products	220	104	-	-	-	-	-	-
32	Stone, clay and glass products	1,513	865	-	-	-	-	(S)	(S)
	New York, total	433,212	212,424	6,477	58,035	1,159	19,623	15,434	53,090
20	Food and kindred products	47,388	26,038	535	4,964	(S)	(S)	2,790	9,774
22	Textile mill products	13,271	5,985	93	857	-	-	723	2,323
23	Apparel and related products	18,619	4,207	5	53	(S)	(S)	140	678
24	Lumber and wood products	4,522	2,303	(S)	(S)	-	-	78	354
25	Furniture and fixtures	4,527	1,716	40	345	-	-	140	610
26	Paper and allied products	32,238	18,958	1,326	12,856	-	-	1,405	4,193
27	Printing and publishing	14,602	2,956	7	66	-	-	228	881
28	Chemicals and allied products	43,144	23,218	1,589	13,748	13	122	1,150	3,452
30	Rubber and plastics products, n.e.c.	9,361	3,058	154	1,174	-	-	144	492
31	Leather and leather products	4,815	2,213	66	622	-	-	125	400
32	Stone, clay and glass products	32,223	20,267	917	8,077	(S)	(S)	1,338	4,256
33	Primary metal industries	87,720	49,387	358	2,860	1,081	17,394	3,466	12,420
34	Fabricated metal products	18,991	8,329	41	361	8	274	571	2,220
35	Machinery, except electrical	25,169	11,776	402	3,677	10	336	721	2,456
36	Electrical machinery	26,503	9,345	102	858	8	219	714	2,472
37	Transportation equipment	20,928	8,987	234	2,060	36	1,216	782	2,531
38	Instruments and related products	14,261	7,526	505	4,481	(S)	(S)	238	862
39 19	Miscellaneous manufacturing, including ordnance	11,176	4,192	33	337	(S)	(S)	323	1,204
	North Carolina, total	110,177	50,355	2,551	19,683	18	398	2,710	9,820
20	Food and kindred products	7,374	3,553	13	128	(S)	(S)	261	1,210
21	Tobacco products	3,458	2,149	168	1,394	-	-	80	278
22	Textile mill products	47,963	15,336	951	7,445	(S)	(S)	834	3,078
23	Apparel and related products	1,472	619	14	119	-	-	61	295
24	Lumber and wood products	5,845	3,811	8	82	(S)	(S)	134	616
25	Furniture and fixtures	3,893	1,107	54	483	-	-	43	175
26	Paper and allied products	14,022	10,444	896	6,813	-	-	879	2,314
27	Printing and publishing	840	162	(S)	(S)	-	-	(S)	(S)
28	Chemicals and allied products	4,247	2,912	272	2,106	-	-	57	256
32	Stone, clay and glass products	9,373	6,676	(S)	(S)	(S)	(S)	158	727
34	Fabricated metal products	1,150	405	(S)	(S)	-	-	20	112
35	Machinery, except electrical	1,103	424	(S)	(S)	(S)	(S)	28	141
	North Dakota, total	1,904	940	(S)	(S)	(S)	(S)	57	334
20	Food and kindred products	1,334	631	(S)	(S)	-	-	(S)	(S)
	Ohio, total	601,654	314,132	12,325	77,131	3,806	54,689	8,193	30,090
20	Food and kindred products	27,320	13,751	595	4,491	(S)	(S)	450	1,807
22	Textile mill products	2,048	978	61	478	-	-	(S)	(S)
23	Apparel and related products	1,552	697	(S)	(S)	-	-	(S)	(S)
25	Furniture and fixtures	2,737	1,269	48	321	-	-	13	60
26	Paper and allied products	20,908	12,749	1,507	10,034	2	71	159	666
27	Printing and publishing	7,392	2,409	19	152	-	-	28	123
28	Chemicals and allied products	105,262	25,788	2,442	13,301	92	1,040	298	1,204
29	Petroleum and coal products	11,876	6,288	73	473	4	72	(S)	(S)
30	Rubber and plastics products, n.e.c.	24,043	10,527	1,289	7,243	2	65	87	379
31	Leather and leather products	726	263	15	115	-	-	-	-
32	Stone, clay and glass products	55,225	41,298	1,674	11,505	6	156	127	582
33	Primary metal industries	220,085	149,295	2,918	17,622	3,672	52,366	5,527	21,013
34	Fabricated metal products	28,583	12,952	262	1,594	16	519	(S)	(S)
35	Machinery, except electrical	28,056	11,539	343	2,405	7	245	227	1,014
36	Electrical machinery	23,828	10,132	320	2,288	3	99	(S)	(S)
37	Transportation equipment	35,040	10,863	677	4,556	(S)	(S)	204	825
38	Instruments and related products	972	313	(S)	(S)	-	-	(S)	(S)
39 19	Miscellaneous manufacturing, including ordnance	3,893	1,823	50	315	-	-	40	166

See footnotes at end of table.

and Selected Major Industry Groups: 1962–Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns–(See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
7,905	2,110	(S)	172	2,460	-	(X)	-	4	6	
368	158	125	30	579	-	(X)	-	13	16	20
62	57	(S)	10	116	-	(X)	(X)	1	1	28
2,301	761	102	48	648	-	1	-	10	5	32
79,031	48,813	32,863	20,576	220,788	1,977	1	2	2	2	
13,653	8,052	3,240	1,409	21,350	123	4	7	10	4	20
2,707	1,037	1,768	434	7,286	17	1	10	8	13	22
886	612	2,829	722	14,412	-	1	13	18	5	23
(S)	(S)	1,315	109	2,219	(S)	-	21	-	21	24
442	287	474	165	2,811	(S)	3	15	7	7	25
944	722	1,187	1,296	13,280	586	2	5	21	4	26
1,253	935	1,074	606	11,646	-	1	9	8	29	27
6,369	3,702	2,194	2,704	19,926	441	1	10	2	4	28
392	307	1,085	428	6,303	13	1	16	13	9	30
359	253	938	129	2,602	(S)	2	15	22	6	31
11,175	5,443	2,489	1,124	11,956	65	2	6	1	4	32
20,974	13,167	3,546	6,382	38,333	283	9	1	3	1	33
5,168	3,744	1,730	623	10,662	-	3	6	6	5	34
4,450	3,180	2,127	934	13,393	46	1	5	8	3	35
4,423	3,314	2,482	1,415	17,158	(S)	1	4	8	3	36
2,630	1,869	1,311	1,037	11,941	7	1	2	1	2	37
1,786	1,237	938	409	6,735	385	1	9	8	5	38
(S)	(S)	1,919	455	6,984	2	1	17	-	6	39 / 19
25,691	12,643	7,811	6,436	59,822	1,313	1	4	9	1	
2,244	1,339	869	261	3,821	-	8	17	11	8	20
342	172	305	126	1,309	112	1	1	12	1	21
6,988	3,350	1,456	3,899	32,627	91	1	9	2	1	22
143	89	116	50	853	-	1	17	1	8	23
(S)	(S)	2,951	101	2,034	(S)	12	23	-	10	24
(S)	(S)	353	222	2,786	(S)	12	11	-	4	25
2,999	1,070	247	419	3,578	934	1	1	1	1	26
(S)	(S)	(S)	(S)	(S)	-	-	-	-	-	27
731	376	174	113	1,335	170	1	4	11	3	28
9,644	4,691	824	242	2,697	-	-	19	24	16	32
233	177	114	49	745	-	-	18	1	9	34
273	162	76	48	679	-	-	2	6	7	35
637	319	(S)	46	964	51	15	27	12	10	
376	172	(S)	33	703	-	17	-	9	11	20
253,707	133,420	18,802	38,924	287,522	5,033	1	3	1	1	
8,962	5,722	1,681	871	13,569	26	4	24	7	8	20
539	353	126	82	1,070	-	1	-	11	5	22
(S)	(S)	153	(S)	(S)	-	-	1	-	-	23
852	578	310	95	1,468	(S)	1	17	12	6	25
2,214	1,355	623	745	8,159	688	1	2	6	1	26
2,364	1,607	527	313	4,983	(S)	-	1	22	15	27
17,983	8,824	1,419	17,533	79,474	834	1	6	1	1	28
10,019	4,936	248	678	5,588	96	4	-	2	2	29
3,614	2,263	577	1,255	13,516	392	1	1	4	3	30
(S)	(S)	(S)	30	463	(S)	1	(X)	-	11	31
52,102	27,262	1,793	1,224	13,927	231	1	12	3	2	32
108,643	52,834	5,460	10,254	70,790	2,676	4	2	1	1	33
14,724	8,719	1,311	1,004	15,631	(S)	1	4	4	3	34
10,886	6,170	1,705	1,140	16,517	76	1	7	3	3	35
9,916	5,966	1,036	1,146	13,696	(S)	1	-	3	2	36
7,772	4,739	737	2,285	24,177	(S)	1	1	1	1	37
315	217	59	39	659	-	1	-	5	6	38
1,723	1,165	177	148	2,070	1	1	1	15	4	39 / 19

TABLE 9. Consumption for Heat and Power, by States

Code	State and major group	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels						
			Total cost of purchased fuels ($1,000)	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 barrels)	Cost ($1,000)
		A	B	C	D	E	F	G	H
	Oklahoma, total	33,837	19,493	91	807	5	103	27	71
20	Food and kindred products	3,388	1,244	(S)	(S)	-	-	(S)	(S)
23	Apparel and related products	177	(S)	-	-	-	-	(S)	(S)
26	Paper and allied products	970	380	-	-	-	-	-	-
27	Printing and publishing	279	34	-	-	-	-	-	-
28	Chemicals and allied products	1,755	872	-	-	-	-	-	-
29	Petroleum and coal products	12,433	8,797	-	-	-	-	(S)	(S)
32	Stone, clay and glass products	5,669	3,662	32	140	-	-	(S)	(S)
33	Primary metal industries	3,392	2,445	55	632	(S)	(S)	-	-
34	Fabricated metal products	926	251	-	-	(S)	(S)	-	-
35	Machinery, except electrical	1,575	600	-	-	-	-	-	-
37	Transportation equipment	636	173	-	-	-	-	-	-
	Oregon, total	60,333	30,977	(S)	(S)	(S)	(S)	2,097	7,546
20	Food and kindred products	5,899	3,808	(S)	(S)	(S)	(S)	311	1,105
24	Lumber and wood products	23,733	13,415	-	-	-	-	630	2,662
25	Furniture and fixtures	311	116	-	-	-	-	(S)	(S)
26	Paper and allied products	11,132	6,511	-	-	-	-	576	1,441
28	Chemicals and allied products	1,397	596	-	-	-	-	(S)	(S)
29	Petroleum and coal products	467	383	-	-	-	-	49	124
32	Stone, clay and glass products	3,242	2,676	(S)	(S)	-	-	201	725
33	Primary metal industries	9,493	1,684	-	-	(S)	(S)	156	565
34	Fabricated metal products	1,183	562	-	-	-	-	34	149
37	Transportation equipment	609	192	-	-	-	-	26	104
	Pennsylvania, total	573,734	357,304	10,486	71,462	4,516	60,817	21,969	70,913
20	Food and kindred products	32,085	17,335	507	4,077	(S)	(S)	1,541	5,049
21	Tobacco products	828	282	7	75	-	-	60	190
22	Textile mill products	13,605	6,663	198	1,694	-	-	1,024	3,248
23	Apparel and related products	8,122	2,921	53	543	-	-	242	817
25	Furniture and fixtures	3,645	1,629	58	443	-	-	95	360
26	Paper and allied products	26,159	15,531	1,275	8,578	-	-	2,029	5,342
27	Printing and publishing	7,444	2,550	44	539	-	-	143	570
28	Chemicals and allied products	34,287	19,571	1,318	7,892	-	-	2,384	6,122
29	Petroleum and coal products	22,937	13,792	402	2,058	-	-	244	786
30	Rubber and plastics products, n.e.c.	8,140	2,603	146	1,134	-	-	338	940
31	Leather and leather products	2,610	1,458	56	463	-	-	118	422
32	Stone, clay and glass products	64,682	44,546	2,305	17,091	35	341	1,594	5,673
33	Primary metal industries	255,899	187,422	3,304	21,005	4,445	59,311	8,751	29,520
34	Fabricated metal products	27,972	13,423	167	1,202	19	606	936	3,413
35	Machinery, except electrical	22,892	10,250	158	1,221	13	428	1,004	3,207
36	Electrical machinery	17,845	6,278	153	965	(S)	(S)	590	1,934
37	Transportation equipment	11,556	4,901	201	1,435	2	74	469	1,627
39 19	Miscellaneous manufacturing, including ordnance	6,275	2,632	112	873	-	-	230	866
	Rhode Island, total	31,182	15,655	14	228	(S)	(S)	3,284	9,400
20	Food and kindred products	1,566	957	(S)	(S)	-	-	148	479
22	Textile mill products	8,832	4,111	8	121	-	-	1,093	3,012
28	Chemicals and allied products	682	315	-	-	-	-	(S)	(S)
30	Rubber and plastics products, n.e.c.	2,945	1,107	4	54	(S)	(S)	(S)	(S)
33	Primary metal industries	4,096	1,944	-	-	(S)	(S)	476	1,282
34	Fabricated metal products	1,570	625	(S)	(S)	-	-	161	396
35	Machinery, except electrical	1,446	554	(S)	(S)	-	-	101	269
36	Electrical machinery	767	179	-	-	-	-	49	136
39 19	Miscellaneous manufacturing, including ordnance	1,838	674	-	-	-	-	103	364

See footnotes at end of table.

and Selected Major Industry Groups: 1962–Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns– (See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
79,525	16,320	2,192	1,518	14,344	127	1	1	2	2	
3,226	1,035	168	153	2,144	6	-	-	16	11	20
(S)	(S)	(S)	(S)	(S)	-	(X)	-	-	-	23
450	109	271	80	590	-	(X)	(X)	1	1	26
(S)	(S)	(S)	(S)	(S)	-	(X)	(X)	-	-	27
1,473	304	568	135	883	-	(X)	(X)	1	1	28
47,278	8,726	(S)	470	3,636	115	(X)	-	1	1	29
14,248	3,032	476	225	2,007	-	1	-	4	3	32
8,546	1,708	(S)	91	947	-	1	(X)	1	1	33
615	198	52	44	675	-	(X)	(X)	1	6	34
847	332	268	60	975	-	(X)	(X)	18	11	35
697	165	(S)	63	463	-	(X)	(X)	1	7	37
26,706	11,047	12,153	6,220	29,356	437	-	5	1	2	
4,374	1,892	722	182	2,091	16	-	20	7	8	20
4,219	1,776	8,977	1,002	10,318	340	(X)	10	15	5	24
(S)	(S)	67	12	195	-	(X)	-	-	26	25
10,486	3,966	1,104	977	4,621	69	(X)	1	1	1	26
635	272	51	289	801	-	(X)	1	1	5	28
611	248	(S)	7	84	-	(X)	8	4	12	29
4,081	1,572	344	90	566	12	-	8	14	11	32
1,328	613	399	3,441	7,809	-	(X)	4	1	1	33
416	294	119	45	621	-	(X)	27	24	18	34
(S)	(S)	57	(S)	(S)	-	(X)	19	-	-	37
286,097	131,093	23,019	18,645	216,430	4,563	1	2	8	1	
10,681	5,800	2,402	919	14,750	111	6	6	6	8	20
(S)	(S)	(S)	35	546	-	1	1	-	2	21
1,013	703	1,018	438	6,942	8	12	8	15	5	22
295	238	1,323	246	5,201	-	13	11	16	7	23
604	390	436	120	2,016	(S)	16	8	1	8	25
1,755	1,008	603	971	10,628	713	1	6	5	4	26
1,370	889	552	344	4,894	(S)	17	26	15	13	27
9,556	4,699	858	1,476	14,716	410	2	5	13	4	28
28,426	10,473	475	1,002	9,145	161	1	24	1	2	29
644	419	110	447	5,537	(S)	1	1	7	5	30
734	399	174	54	1,152	13	9	10	1	4	31
36,569	19,259	2,182	1,804	20,136	217	3	13	2	3	32
167,651	69,811	7,775	6,874	68,477	2,791	1	1	1	1	33
11,078	6,931	1,271	1,004	14,549	(S)	3	7	5	3	34
7,230	4,603	791	964	12,642	14	3	4	5	3	35
4,731	2,797	535	972	11,567	36	1	7	2	2	36
2,011	1,309	456	543	6,655	79	6	3	11	3	37
907	674	219	245	3,643	2	2	23	9	9	39 19
3,134	2,351	3,608	971	15,527	69	-	6	7	9	
625	430	(S)	31	609	(S)	-	13	16	15	20
1,138	542	436	316	4,721	28	1	9	6	26	22
79	52	(S)	24	367	-	(X)	-	1	16	28
42	56	(S)	124	1,838	-	1	-	1	27	30
(S)	(S)	158	144	2,152	11	(X)	2	-	5	33
96	85	136	46	945	-	-	15	24	11	34
211	178	65	45	892	(S)	-	4	11	11	35
(S)	(S)	(S)	36	588	-	1	1	-	9	36
147	160	150	58	1,164	-	(X)	6	6	5	39 19

TABLE 9. Consumption for Heat and Power, by States

Code	State and major group	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels							
			Total cost of purchased fuels ($1,000)	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 barrels)	Cost ($1,000)
		A	B	C	D	E	F	G	H
	South Carolina, total	89,337	43,053	2,263	18,314	18	424	2,854	8,223
20	Food and kindred products	3,039	1,350	7	77	-	-	54	260
21	Tobacco products	71	(S)	(S)	(S)	-	-	(S)	(S)
22	Textile mill products	40,907	13,547	963	7,601	-	-	385	1,340
23	Apparel and related products	1,332	413	(S)	(S)	-	-	39	203
24	Lumber and wood products	3,256	2,238	(S)	(S)	(S)	(S)	150	682
25	Furniture and fixtures	364	107	-	-	-	-	15	64
26	Paper and allied products	9,451	7,726	407	3,277	-	-	1,784	4,185
28	Chemicals and allied products	16,735	9,297	(S)	(S)	-	-	104	417
32	Stone, clay and glass products	8,125	6,021	45	377	-	-	102	382
36	Electrical machinery	699	201	(S)	(S)	-	-	34	133
	South Dakota, total	6,050	3,161	(S)	(S)	(S)	(S)	(S)	(S)
20	Food and kindred products	5,028	2,563	(S)	(S)	(S)	(S)	(S)	(S)
	Tennessee, total	170,772	55,628	3,035	17,730	258	5,513	604	2,681
20	Food and kindred products	10,144	5,702	90	615	-	-	(S)	(S)
22	Textile mill products	4,695	1,947	93	650	-	-	18	99
23	Apparel and related products	1,357	559	8	51	-	-	21	101
24	Lumber and wood products	2,442	1,245	(S)	(S)	-	-	20	114
25	Furniture and fixtures	1,152	380	(S)	(S)	-	-	13	54
26	Paper and allied products	9,172	4,890	240	1,375	-	-	100	321
27	Printing and publishing	844	316	(S)	(S)	-	-	(S)	(S)
28	Chemicals and allied products	95,470	20,514	1,984	11,077	(S)	(S)	61	353
30	Rubber and plastics products, n.e.c.	1,975	730	12	81	-	-	20	65
31	Leather and leather products	724	295	13	94	-	-	(S)	(S)
32	Stone, clay and glass products	10,291	6,777	463	2,689	12	171	(S)	(S)
33	Primary metal industries	21,880	7,049	104	868	142	3,145	16	69
34	Fabricated metal products	2,705	1,493	(S)	(S)	11	333	(S)	(S)
35	Machinery, except electrical	1,436	778	(S)	(S)	8	266	(S)	(S)
36	Electrical machinery	3,791	1,515	(S)	(S)	2	65	(S)	(S)
37	Transportation equipment	896	414	(S)	(S)	-	-	-	-
39 19	Miscellaneous manufacturing, including ordnance	598	236	(S)	(S)	-	-	(S)	(S)
	Texas, total	350,501	243,829	(S)	(S)	(S)	(S)	670	2,081
20	Food and kindred products	21,837	8,240	-	-	-	-	(S)	(S)
22	Textile mill products	1,604	325	-	-	-	-	(S)	(S)
23	Apparel and related products	2,117	493	-	-	-	-	-	-
24	Lumber and wood products	4,160	2,247	-	-	-	-	(S)	(S)
25	Furniture and fixtures	1,125	339	-	-	-	-	-	-
26	Paper and allied products	6,555	3,534	-	-	-	-	-	-
27	Printing and publishing	1,900	273	-	-	-	-	(S)	(S)
28	Chemicals and allied products	97,232	69,853	-	-	-	-	(S)	(S)
29	Petroleum and coal products	130,190	110,689	-	-	-	-	(S)	(S)
30	Rubber and plastics products, n.e.c.	2,020	531	-	-	-	-	(S)	(S)
32	Stone, clay and glass products	21,738	14,784	-	-	(S)	(S)	(S)	(S)
33	Primary metal industries	37,065	25,629	(S)	(S)	290	3,071	339	739
34	Fabricated metal products	5,230	2,009	(S)	(S)	(S)	(S)	(S)	(S)
35	Machinery, except electrical	6,727	2,104	(S)	(S)	(S)	(S)	57	173
36	Electrical machinery	2,643	427	-	-	-	-	-	-
37	Transportation equipment	6,611	1,680	-	-	-	-	(S)	(S)
38	Instruments and related products	333	100	-	-	-	-	(S)	(S)
	Utah, total	19,806	12,917	248	1,371	41	1,279	906	2,692
20	Food and kindred products	2,590	1,143	23	197	(S)	(S)	23	86
27	Printing and publishing	175	(S)	-	-	-	-	-	-
29	Petroleum and coal products	1,689	975	-	-	-	-	(S)	(S)
32	Stone, clay and glass products	2,816	1,972	162	748	-	-	123	347
33	Primary metal industries	9,064	7,123	45	282	39	1,219	552	1,576
34	Fabricated metal products	535	333	(S)	(S)	-	-	(S)	(S)
35	Machinery, except electrical	388	117	-	-	-	-	-	-
36	Electrical machinery	210	121	-	-	-	-	-	-
37	Transportation equipment	970	445	-	-	-	-	135	416

See footnotes at end of table.

and Selected Major Industry Groups: 1962–Continued

Purchased fuels–Continued			Electric energy			Standard error of estimates (percent) for columns–(See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
30,961	13,041	3,051	6,188	46,284	1,822	2	3	2	1	
(S)	(S)	424	128	1,689	-	26	27	-	16	20
-	-	(S)	(S)	(S)	-	-	-	1	1	21
11,116	4,461	145	3,765	27,360	246	4	9	1	1	22
(S)	(S)	121	54	919	-	-	20	-	12	23
166	73	1,465	61	1,018	(S)	-	28	1	21	24
(S)	(S)	(S)	17	257	-	-	1	-	12	25
327	169	95	235	1,725	560	1	1	1	1	26
5,676	1,926	119	1,221	7,438	1,015	2	1	1	2	28
11,164	5,008	254	273	2,104	-	3	11	4	3	32
116	51	(S)	64	498	-	-	1	1	1	36
(S)	(S)	579	187	2,889	(S)	-	-	-	26	
(S)	(S)	(S)	169	2,465	(S)	1	-	-	30	20
67,809	25,437	4,267	24,922	115,144	1,632	1	25	2	-	
9,043	3,636	551	450	4,442	(S)	23	-	8	9	20
2,587	1,069	129	435	2,748	-	1	1	4	3	22
390	248	159	52	798	-	1	30	29	11	23
628	235	870	75	1,197	17	-	18	26	12	24
444	205	79	63	772	-	-	1	15	9	25
10,185	3,122	72	781	4,282	(S)	1	1	2	2	26
485	202	76	52	528	-	-	-	23	13	27
20,546	6,886	(S)	17,913	74,956	1,159	1	1	1	1	28
2,018	540	(S)	191	1,245	-	1	1	1	2	30
339	170	(S)	46	429	-	1	-	1	2	31
7,610	3,020	496	553	3,514	-	1	-	5	3	32
5,662	2,663	304	3,564	14,831	-	1	1	3	1	33
1,411	861	216	108	1,212	-	-	-	7	9	34
842	334	137	75	658	-	-	-	1	6	35
2,460	1,106	304	423	2,276	-	-	-	1	2	36
623	363	(S)	62	482	-	1	(X)	1	2	37
198	129	55	26	362	-	-	-	17	8	39 / 19
1,097,689	212,655	18,221	12,664	106,672	13,809	-	16	1	1	
19,511	5,876	2,049	1,069	13,597	67	(X)	-	7	5	20
1,290	320	(S)	137	1,279	-	(X)	-	9	2	22
557	276	217	77	1,624	-	(X)	(X)	11	12	23
2,415	770	1,368	128	1,913	41	(X)	-	25	11	24
443	191	148	53	786	-	(X)	(X)	16	12	25
13,269	2,812	722	357	3,021	853	(X)	(X)	1	4	26
490	186	86	111	1,627	-	(X)	-	16	11	27
353,004	63,922	5,797	3,951	27,379	5,043	(X)	-	1	1	28
550,561	107,436	3,247	2,754	19,501	1,878	(X)	-	1	1	29
1,569	486	(S)	137	1,489	-	(X)	-	19	10	30
54,979	11,908	2,254	732	6,954	83	(X)	-	2	4	32
85,517	14,009	317	1,737	11,436	5,844	-	1	3	2	33
3,591	1,174	775	219	3,221	-	-	-	15	5	34
4,034	1,298	596	384	4,623	-	-	29	13	5	35
991	355	72	214	2,216	-	(X)	(X)	25	9	36
4,505	1,173	321	515	4,931	-	(X)	-	1	2	37
164	71	(S)	15	233	-	(X)	-	28	26	38
33,784	6,878	697	754	6,889	425	2	3	2	4	
1,508	577	223	111	1,447	(S)	10	1	5	17	20
(S)	(S)	(S)	(S)	(S)	-	(X)	(X)	-	-	27
3,634	925	(S)	89	714	-	(X)	-	1	1	29
2,499	722	155	82	844	-	1	1	10	5	32
24,629	4,018	(S)	296	1,941	420	1	1	1	3	33
(S)	(S)	(S)	13	202	-	-	-	-	1	34
147	115	(S)	21	271	-	(X)	(X)	1	4	35
(S)	(S)	107	7	89	-	(X)	(X)	-	1	36
(S)	(S)	(S)	70	525	-	(X)	1	-	1	37

TABLE 9. Consumption for Heat and Power, by States

Code	State and major group	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels							
			Total cost of purchased fuels ($1,000)	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 barrels)	Cost ($1,000)
		A	B	C	D	E	F	G	H
	Vermont, total	10,614	4,891	96	1,163	-	-	716	2,747
24	Lumber and wood products	852	474	(S)	(S)	-	-	(S)	(S)
25	Furniture and fixtures	302	111	5	52	-	-	(S)	(S)
26	Paper and allied products	1,883	975	58	721	-	-	63	225
32	Stone, clay and glass products	1,283	543	(S)	(S)	-	-	85	376
35	Machinery, except electrical	786	226	(S)	(S)	-	-	42	167
36	Electrical machinery	319	124	(S)	(S)	-	-	21	75
	Virginia, total	102,348	63,004	4,631	35,638	119	2,674	2,489	9,208
20	Food and kindred products	7,684	3,843	71	645	-	-	503	1,603
21	Tobacco products	2,476	1,145	48	461	-	-	134	409
22	Textile mill products	8,695	3,530	325	2,676	-	-	75	305
23	Apparel and related products	1,082	434	14	85	-	-	58	267
24	Lumber and wood products	4,787	2,982	(S)	(S)	-	-	177	948
25	Furniture and fixtures	1,750	458	30	258	-	-	17	96
26	Paper and allied products	15,346	11,994	1,160	9,017	-	-	462	1,537
27	Printing and publishing	708	201	(S)	(S)	-	-	18	66
28	Chemicals and allied products	31,728	23,325	2,388	17,766	(S)	(S)	246	898
31	Leather and leather products	407	201	24	201	-	-	-	-
32	Stone, clay and glass products	9,108	6,225	384	2,870	-	-	249	945
33	Primary metal industries	5,169	3,377	(S)	(S)	80	1,996	95	400
39 } 19	Miscellaneous manufacturing, including ordnance	1,758	1,312	29	235	-	-	17	78
	Washington, total	102,960	51,667	470	3,577	35	983	4,971	13,526
20	Food and kindred products	9,961	6,556	(S)	(S)	(S)	(S)	450	1,543
23	Apparel and related products	224	93	(S)	(S)	-	-	(S)	(S)
24	Lumber and wood products	11,852	6,882	-	-	-	-	444	2,090
25	Furniture and fixtures	255	68	-	-	-	-	(S)	(S)
26	Paper and allied products	25,993	17,397	-	-	-	-	2,723	6,086
27	Printing and publishing	586	182	-	-	-	-	(S)	(S)
28	Chemicals and allied products	14,175	4,776	(S)	(S)	-	-	307	860
29	Petroleum and coal products	2,251	1,137	-	-	-	-	224	499
33	Primary metal industries	20,765	4,524	(S)	(S)	32	878	298	777
34	Fabricated metal products	1,575	777	(S)	(S)	-	-	112	351
37	Transportation equipment	5,051	2,062	(S)	(S)	-	-	269	775
	West Virginia, total	101,091	55,217	4,960	23,802	36	843	921	3,177
20	Food and kindred products	1,910	1,004	8	60	-	-	(S)	(S)
22	Textile mill products	168	93	(S)	(S)	-	-	-	-
23	Apparel and related products	69	(S)	(S)	(S)	-	-	(S)	(S)
24	Lumber and wood products	1,001	745	14	69	-	-	38	198
26	Paper and allied products	530	350	25	212	-	-	(S)	(S)
27	Printing and publishing	781	154	(S)	(S)	-	-	-	-
28	Chemicals and allied products	38,701	20,985	3,503	15,794	(S)	(S)	59	194
31	Leather and leather products	255	204	29	197	-	-	-	-
32	Stone, clay and glass products	18,086	14,441	230	1,787	-	-	13	66
33	Primary metal industries	32,610	14,064	1,095	5,314	35	813	(S)	(S)
34	Fabricated metal products	1,946	951	(S)	(S)	-	-	(S)	(S)
37	Transportation equipment	600	211	-	-	(S)	(S)	-	-
	Wisconsin, total	148,452	83,145	3,715	34,579	160	5,493	2,642	11,190
20	Food and kindred products	26,408	17,318	676	6,656	(S)	(S)	889	3,609
22	Textile mill products	1,078	540	16	156	-	-	16	70
23	Apparel and related products	703	204	(S)	(S)	-	-	(S)	(S)
24	Lumber and wood products	3,155	1,527	22	233	-	-	50	245
25	Furniture and fixtures	1,020	509	16	186	-	-	10	53
26	Paper and allied products	36,955	21,834	1,897	17,018	-	-	282	1,158
27	Printing and publishing	2,653	945	7	64	-	-	(S)	(S)
28	Chemicals and allied products	2,809	1,672	103	974	-	-	53	213
30	Rubber and plastics products, n.e.c.	2,971	998	54	481	-	-	(S)	(S)
31	Leather and leather products	2,362	1,342	50	508	-	-	37	163
33	Primary metal industries	17,896	10,788	81	937	118	4,143	220	966
34	Fabricated metal products	8,906	4,647	63	749	9	297	174	777
35	Machinery, except electrical	16,717	8,585	279	2,593	27	878	322	1,396
36	Electrical machinery	6,089	2,227	61	604	(S)	(S)	71	327
37	Transportation equipment	8,153	3,841	160	1,355	(S)	(S)	128	541
39 } 19	Miscellaneous manufacturing, including ordnance	1,653	752	12	128	2	58	(S)	(S)
	Wyoming, total	5,704	4,231	(S)	(S)	(S)	(S)	(S)	(S)
20	Food and kindred products	802	584	-	-	(S)	(S)	(S)	(S)
29	Petroleum and coal products	3,588	2,774	-	-	-	-	-	-

Note: Detailed figures may not add to totals because of independent rounding. State totals include the estimates for all component major industry groups, regardless of whether or not data are shown for the individual major groups.

- Entry represents zero.

S Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with

and Selected Major Industry Groups: 1962–Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns– (See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
37	26	955	358	5,723	28	8	16	1	6	
-	-	305	18	378	(S)	-	-	(X)	21	24
-	-	(S)	10	191	(S)	19	-	(X)	11	25
(S)	(S)	(S)	74	908	(S)	1	13	-	2	26
-	-	122	35	740	(S)	-	19	(X)	15	32
(S)	(S)	(S)	36	560	(S)	-	1	-	1	35
(S)	(S)	(S)	14	195	-	-	1	-	1	36
17,087	9,370	6,114	3,679	39,344	2,175	1	7	4	2	
1,277	859	736	243	3,841	(S)	19	16	12	9	20
380	231	(S)	93	1,331	(S)	1	1	1	1	21
1,125	452	97	555	5,165	(S)	1	10	1	1	22
(S)	(S)	(S)	31	648	-	1	23	-	12	23
212	134	1,383	106	1,805	38	-	19	30	17	24
96	57	(S)	90	1,292	28	1	1	1	5	25
2,845	1,297	143	300	3,352	1,036	1	1	1	1	26
144	84	38	34	507	-	-	1	12	10	27
4,865	2,512	(S)	1,109	8,403	870	1	1	1	1	28
-	-	-	10	206	(S)	1	(X)	(X)	1	31
2,987	1,603	807	249	2,883	(S)	1	17	12	3	32
1,245	847	93	168	1,792	-	-	1	14	15	33
138	108	891	29	446	57	1	-	28	18	39 / 19
54,657	21,125	12,456	14,584	51,293	1,065	1	5	2	1	
8,283	3,902	1,027	327	3,405	21	-	25	11	11	20
(S)	(S)	(S)	9	131	-	-	-	-	15	23
1,317	646	4,146	491	4,970	231	(X)	20	11	8	24
(S)	(S)	(S)	18	187	-	(X)	-	-	21	25
25,074	8,534	2,777	2,124	8,596	766	(X)	1	1	1	26
(S)	(S)	77	36	404	-	(X)	-	-	22	27
3,314	1,287	(S)	3,317	9,399	37	1	1	1	1	28
1,028	389	249	141	1,114	-	(X)	1	1	1	29
7,057	2,472	(S)	7,088	16,241	-	1	26	2	1	33
309	206	199	72	798	-	-	11	1	8	34
1,659	812	473	455	2,989	-	-	1	11	3	37
50,853	24,801	2,594	7,312	45,874	2,874	1	3	1	1	
808	469	381	52	906	-	1	-	21	14	20
(S)	(S)	(S)	5	75	-	-	(X)	-	1	22
(S)	(S)	(S)	(S)	(S)	-	-	-	-	1	23
(S)	(S)	466	12	256	(S)	1	30	-	13	24
(S)	(S)	(S)	10	180	11	1	-	-	28	26
(S)	(S)	(S)	(S)	(S)	-	1	(X)	-	-	27
8,856	3,957	1,023	2,890	17,716	1,143	1	1	1	1	28
(S)	(S)	-	3	51	(S)	1	1	-	1	31
25,382	12,393	195	371	3,645	(S)	1	1	1	2	32
10,755	5,319	292	3,551	18,546	1,699	1	1	1	1	33
1,444	778	97	68	995	-	-	-	1	3	34
389	196	(S)	39	389	-	(X)	(X)	1	1	37
39,511	22,816	9,067	4,748	65,307	1,817	2	6	2	2	
7,987	4,351	2,681	542	9,090	175	6	18	6	6	20
361	256	58	30	538	(S)	6	1	8	6	22
(S)	(S)	65	(S)	(S)	-	-	-	-	-	23
196	133	916	79	1,628	24	1	8	15	9	24
193	158	112	24	511	(S)	5	19	13	10	25
6,182	2,830	828	1,377	15,121	1,361	2	13	3	3	26
345	277	198	105	1,708	-	1	-	14	15	27
504	390	95	72	1,137	14	11	9	13	8	28
325	181	175	147	1,973	-	1	-	11	11	30
424	241	430	58	1,020	16	8	18	4	5	31
7,738	4,558	184	522	7,108	9	1	8	6	9	33
4,040	2,503	321	285	4,259	13	1	15	8	7	34
4,776	2,994	724	583	8,132	150	3	3	2	2	35
1,695	1,088	200	273	3,862	23	1	12	1	1	36
2,268	1,385	559	355	4,312	6	1	6	4	3	37
454	343	59	46	901	-	8	-	25	17	39 / 19
14,596	3,509	346	162	1,473	23	1	-	3	10	
1,613	354	206	(S)	(S)	7	(X)	-	3	-	20
11,674	2,768	(S)	107	814	(S)	(X)	(X)	1	1	29

the figure was too high (generally in excess of 25 percent); cost of fuel less than $50 thousand; quantity of electric energy less than 5 million kw.-hrs.; to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

X Not applicable.

TABLE 10. Consumption for Heat and Power, for SMSA's With 40,000

Code	Standard consolidated area, standard metropolitan statistical area, and major industry groups	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels							
			Total cost ($1,000)	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 barrels)	Cost ($1,000)
		A	B	C	D	E	F	G	H
	STANDARD CONSOLIDATED AREAS								
	Chicago, Ill.-Northwestern Indiana; total	361,383	213,627	3,967	28,589	2,132	44,815	15,612	58,761
20	Food and kindred products	30,421	17,526	849	5,861	-	-	826	3,423
23	Apparel and related products	1,433	485	(S)	(S)	-	-	45	190
25	Furniture and fixtures	3,340	1,555	14	140	-	-	145	586
26	Paper and allied products	9,305	4,703	140	993	-	-	435	1,727
27	Printing and publishing	8,482	2,423	(S)	(S)	-	-	250	927
28	Chemicals and allied products	24,415	13,948	614	4,278	71	537	692	2,599
29	Petroleum and coal products	12,303	7,501	75	547	-	-	200	722
32	Stone, clay and glass products	17,133	11,088	608	4,767	7	205	531	2,188
33	Primary metal industries	168,265	119,277	964	6,912	2,049	43,942	9,028	32,173
34	Fabricated metal products	24,090	10,877	105	716	3	55	877	3,736
35	Machinery, except electrical	19,040	7,785	193	1,459	(S)	(S)	854	3,649
36	Electrical machinery	17,603	7,101	192	1,350	(S)	(S)	745	2,936
37	Transportation equipment	7,970	2,770	120	717	(S)	(S)	301	1,078
39	Miscellaneous manufacturing, including ordnance	4,016	1,571	13	118	-	-	162	743
	New York, N.Y.-Northeastern New Jersey, total[1]	276,496	121,358	1,076	10,562	65	1,461	21,831	62,405
20	Food and kindred products	35,094	19,944	291	2,905	-	-	3,230	9,700
22	Textile mill products	15,840	8,025	30	222	-	-	1,742	4,797
23	Apparel and related products	19,539	4,392	(S)	(S)	-	-	141	689
25	Furniture and fixtures	3,613	1,292	-	-	-	-	105	486
26	Paper and allied products	15,601	8,503	330	3,266	(S)	(S)	1,597	4,120
27	Printing and publishing	14,869	2,868	(S)	(S)	-	-	241	959
28	Chemicals and allied products	30,171	16,303	132	1,256	12	119	4,355	11,443
30	Rubber and plastics products, n.e.c.	10,392	3,315	75	762	-	-	335	1,105
31	Leather and leather products	2,353	585	(S)	(S)	-	-	103	252
32	Stone, clay and glass products	10,815	5,899	34	337	(S)	(S)	707	2,568
33	Primary metal industries	18,771	9,132	(S)	(S)	45	1,098	1,304	4,016
34	Fabricated metal products	19,280	7,767	18	195	6	194	613	2,316
35	Machinery, except electrical	13,133	5,434	40	395	(S)	(S)	586	2,171
36	Electrical machinery	20,149	6,339	16	172	(S)	(S)	865	2,756
37	Transportation equipment	14,352	5,592	89	853	(S)	(S)	935	2,736
38	Instruments and related products	6,195	1,793	(S)	(S)	-	-	290	962
39	Miscellaneous manufacturing, including ordnance	11,035	3,812	(S)	(S)	(S)	(S)	397	1,437
	STANDARD METROPOLITAN STATISTICAL AREAS								
	Akron, Ohio, total	26,143	15,535	1,968	9,394	(S)	(S)	85	377
27	Printing and publishing	119	47	-	-	-	-	-	-
28	Chemicals and allied products	6,187	5,536	(S)	(S)	(S)	(S)	(S)	(S)
30	Rubber and plastics products, n.e.c.	10,559	5,759	983	4,974	-	-	(S)	(S)
33	Primary metal industries	622	218	-	-	(S)	(S)	(S)	(S)
34	Fabricated metal products	2,284	1,132	(S)	(S)	(S)	(S)	(S)	(S)
37	Transportation equipment	1,522	403	(S)	(S)	-	-	(S)	(S)
39	Miscellaneous manufacturing, including ordnance	150	102	-	-	-	-	-	-
	Albany-Schenectady-Troy, N.Y., total	23,243	15,291	575	5,442	(S)	(S)	1,089	3,599
22	Textile mill products	731	416	(S)	(S)	-	-	94	240
23	Apparel and related products	224	107	(S)	(S)	-	-	16	72
26	Paper and allied products	5,025	3,721	289	2,707	-	-	366	975
27	Printing and publishing	329	153	-	-	-	-	18	51
28	Chemicals and allied products	1,402	888	(S)	(S)	-	-	105	278
32	Stone, clay and glass products	1,372	808	(S)	(S)	-	-	117	343
33	Primary metal industries	4,666	3,238	(S)	(S)	(S)	(S)	134	589
	Allentown-Bethlehem-Easton, Pa.-N.J., total	37,526	23,847	1,341	11,915	58	951	2,236	7,604
20	Food and kindred products	1,275	728	30	284	(S)	(S)	59	226
22	Textile mill products	1,474	691	13	127	-	-	152	402
23	Apparel and related products	792	205	(S)	(S)	-	-	21	104
26	Paper and allied products	695	256	(S)	(S)	-	-	74	204
27	Printing and publishing	321	95	-	-	-	-	(S)	(S)
32	Stone, clay and glass products	14,897	9,773	1,003	8,822	(S)	(S)	183	612
34	Fabricated metal products	2,287	785	(S)	(S)	(S)	(S)	100	360
35	Machinery, except electrical	1,542	442	(S)	(S)	(S)	(S)	144	401
36	Electrical machinery	2,678	334	-	-	-	-	80	250

See footnotes at end of table.

or More Manufacturing Employees, by Industry Groups: 1962

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns– (See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
165,673	70,791	10,671	11,633	147,756	3,204	1	1	2	1	
14,969	6,930	1,312	920	12,895	290	-	-	-	-	20
181	123	(S)	47	948	-	-	-	-	-	23
891	642	187	105	1,785	-	-	-	-	-	25
2,615	1,251	732	346	4,602	48	-	-	-	-	26
1,407	752	636	380	6,059	304	-	-	-	-	27
12,115	5,485	1,049	917	10,467	(S)	-	-	-	-	28
15,318	5,660	572	501	4,802	(S)	-	-	-	-	29
5,974	2,689	1,239	445	6,045	53	-	-	-	-	32
91,994	35,397	853	4,459	48,988	1,838	-	-	-	-	33
7,972	4,784	1,586	821	13,213	(S)	-	-	-	-	34
3,070	1,890	716	747	11,255	(S)	-	-	-	-	35
3,323	2,137	677	771	10,502	106	-	-	-	-	36
1,272	819	153	450	5,200	(S)	-	-	-	-	37
627	422	288	130	2,445	-	-	-	-	-	39
34,379	22,557	24,373	9,707	155,138	630	3	7	3	2	
8,237	4,647	2,692	943	15,150	132	-	-	-	-	20
2,545	1,031	1,975	412	7,815	(S)	-	-	-	-	22
886	627	3,036	774	15,147	(S)	-	-	-	-	23
275	182	624	128	2,321	-	-	-	-	-	25
684	540	566	530	7,098	335	-	-	-	-	26
(S)	(S)	1,147	614	12,001	-	-	-	-	-	27
3,464	1,692	1,793	1,081	13,868	109	-	-	-	-	28
453	454	994	444	7,077	(S)	-	-	-	-	30
104	60	259	113	1,768	-	-	-	-	-	31
2,433	1,305	1,688	276	4,916	7	-	-	-	-	32
3,861	3,123	845	641	9,639	9	-	-	-	-	33
3,957	2,875	2,187	637	11,513	-	-	-	-	-	34
2,031	1,679	1,170	441	7,699	17	-	-	-	-	35
2,706	2,038	1,370	917	13,810	(S)	-	-	-	-	36
825	670	1,327	600	8,760	8	-	-	-	-	37
406	383	411	252	4,402	-	-	-	-	-	38
537	464	1,859	432	7,223	-	-	-	-	-	39
6,459	3,755	1,190	1,007	10,608	971	1	24	4	4	
(S)	(S)	(S)	5	72	-	-	-	-	-	27
1,083	609	355	64	651	(S)	-	-	-	-	28
633	395	(S)	539	4,800	385	-	-	-	-	30
188	124	(S)	30	404	-	-	-	-	-	33
1,394	836	144	94	1,152	-	-	-	-	-	34
(S)	(S)	(S)	116	1,119	-	-	-	-	-	37
(S)	(S)	(S)	(S)	(S)	-	-	-	-	-	39
1,962	1,482	2,825	738	7,952	257	1	6	3	2	
99	91	(S)	29	315	-	-	-	-	-	22
(S)	(S)	(S)	8	117	-	-	-	-	-	23
(S)	(S)	(S)	136	1,304	222	-	-	-	-	26
(S)	(S)	(S)	13	176	-	-	-	-	-	27
(S)	(S)	196	54	514	-	-	-	-	-	28
(S)	(S)	(S)	58	564	-	-	-	-	-	32
544	403	299	124	1,428	(S)	-	-	-	-	33
2,568	1,905	1,472	1,140	13,679	560	1	3	6	3	
163	157	(S)	47	547	(S)	-	-	-	-	20
108	84	78	50	783	-	-	-	-	-	22
(S)	(S)	(S)	26	587	-	-	-	-	-	23
-	-	(S)	38	439	(S)	-	-	-	-	26
(S)	(S)	12	13	226	-	-	-	-	-	27
-	-	(S)	482	5,124	204	-	-	-	-	32
409	238	(S)	112	1,502	(S)	-	-	-	-	34
-	-	(S)	71	1,100	(S)	-	-	-	-	35
74	78	(S)	204	2,344	-	-	-	-	-	36

TABLE 10. Consumption for Heat and Power, for SMSA's With 40,000

Code	Standard consolidated area, standard metropolitan statistical area, and major industry groups	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels							
			Total cost	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 barrels)	Cost ($1,000)
		A	B	C	D	E	F	G	H
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued								
	Atlanta, Ga., total	17,106	6,579	18	169	(S)	(S)	123	542
20	Food and kindred products	2,776	1,265	(S)	(S)	-	-	(S)	(S)
22	Textile mill products	1,324	461	7	56	-	-	(S)	(S)
26	Paper and allied products	1,152	436	(S)	(S)	-	-	(S)	(S)
28	Chemicals and allied products	674	213	(S)	(S)	-	-	(S)	(S)
31	Leather and leather products	127	57	(S)	(S)	-	-	-	-
32	Stone, clay and glass products	1,572	1,130	-	-	-	-	21	89
34	Fabricated metal products	941	392	-	-	-	-	(S)	(S)
37	Transportation equipment	3,307	909	-	-	-	-	(S)	(S)
39	Miscellaneous manufacturing, including ordnance	349	51	-	-	-	-	-	-
	Baltimore, Md., total	72,709	39,657	683	6,240	(S)	(S)	6,643	18,982
20	Food and kindred products	6,064	3,582	(S)	(S)	-	-	492	1,396
23	Apparel and related products	811	325	(S)	(S)	-	-	21	96
25	Furniture and fixtures	150	71	-	-	-	-	(S)	(S)
26	Paper and allied products	2,578	1,010	(S)	(S)	-	-	96	275
27	Printing and publishing	1,775	220	-	-	-	-	(S)	(S)
28	Chemicals and allied products	8,283	4,683	112	1,029	-	-	877	2,803
33	Primary metal industries	31,147	19,108	(S)	(S)	(S)	(S)	3,270	9,126
34	Fabricated metal products	2,899	1,244	(S)	(S)	(S)	(S)	92	344
35	Machinery, except electrical	1,585	492	-	-	(S)	(S)	83	249
36	Electrical machinery	1,589	585	(S)	(S)	(S)	(S)	72	216
37	Transportation equipment	4,583	1,774	(S)	(S)	-	-	294	825
	Birmingham, Ala., total	67,274	50,196	202	1,334	1,902	30,686	592	2,045
27	Printing and publishing	189	77	-	-	-	-	-	-
28	Chemicals and allied products	1,130	508	(S)	(S)	-	-	(S)	(S)
32	Stone, clay and glass products	4,372	3,199	18	111	(S)	(S)	17	65
33	Primary metal industries	56,872	44,474	167	1,082	1,876	30,128	540	1,840
34	Fabricated metal products	1,546	754	(S)	(S)	(S)	(S)	(S)	(S)
36	Electrical machinery	141	57	-	-	-	-	-	-
	Boston, Mass., total	58,999	26,962	(S)	(S)	(S)	(S)	6,102	17,936
20	Food and kindred products	6,404	3,325	(S)	(S)	(S)	(S)	921	2,472
23	Apparel and related products	1,478	509	-	-	-	-	22	83
26	Paper and allied products	3,631	2,262	(S)	(S)	-	-	713	1,904
27	Printing and publishing	2,492	723	-	-	-	-	(S)	(S)
29	Petroleum and coal products	2,127	1,181	(S)	(S)	-	-	339	812
30	Rubber and plastics products, n.e.c.	4,567	1,484	(S)	(S)	-	-	399	1,046
31	Leather and leather products	2,097	1,063	(S)	(S)	-	-	315	849
34	Fabricated metal products	3,641	1,566	(S)	(S)	(S)	(S)	269	940
35	Machinery, except electrical	4,759	2,662	(S)	(S)	(S)	(S)	814	2,109
36	Electrical machinery	6,479	1,866	(S)	(S)	-	-	280	946
37	Transportation equipment	3,702	1,308	-	-	(S)	(S)	301	866
38	Instruments and related products	2,168	803	-	-	-	-	196	542
	Bridgeport, Conn., total	14,720	6,829	(S)	(S)	(S)	(S)	1,378	3,919
23	Apparel and related products	102	36	-	-	-	-	-	-
28	Chemicals and allied products	(S)	(S)	(S)	(S)	-	-	(S)	(S)
30	Rubber and plastics products, n.e.c.	1,252	752	-	-	-	-	253	631
32	Stone, clay and glass products	765	466	-	-	-	-	(S)	(S)
33	Primary metal industries	3,815	1,933	-	-	(S)	(S)	185	507
34	Fabricated metal products	1,239	606	-	-	(S)	(S)	90	299
35	Machinery, except electrical	1,442	694	-	-	(S)	(S)	135	385
37	Transportation equipment	1,790	600	-	-	-	-	225	565
38	Instruments and related products	258	105	-	-	-	-	(S)	(S)
	Buffalo, N.Y., total	103,791	60,464	1,782	14,491	985	15,608	2,987	10,991
20	Food and kindred products	5,533	2,959	24	224	-	-	187	733
22	Textile mill products	547	201	(S)	(S)	-	-	(S)	(S)
25	Furniture and fixtures	214	133	(S)	(S)	-	-	(S)	(S)
26	Paper and allied products	4,133	2,505	243	2,076	-	-	94	318
27	Printing and publishing	562	177	(S)	(S)	-	-	31	109
28	Chemicals and allied products	20,626	8,311	760	6,299	(S)	(S)	(S)	(S)
29	Petroleum and coal products	1,294	288	(S)	(S)	-	-	(S)	(S)
30	Rubber and plastics products, n.e.c.	1,631	728	(S)	(S)	-	-	(S)	(S)
32	Stone, clay and glass products	6,358	3,580	198	1,592	-	-	127	612
33	Primary metal industries	44,882	33,113	219	1,656	945	14,313	1,855	6,682
34	Fabricated metal products	2,404	1,390	(S)	(S)	(S)	(S)	121	477
35	Machinery, except electrical	2,288	1,163	35	286	(S)	(S)	59	250
36	Electrical machinery	4,604	1,683	(S)	(S)	(S)	(S)	(S)	(S)
37	Transportation equipment	7,872	3,778	118	985	(S)	(S)	219	767

See footnotes at end of table.

or More Manufacturing Employees, by Industry Groups: 1962–Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns– (See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
12,080	4,818	1,019	976	10,527	(S)	24	19	1	3	
2,087	911	192	116	1,511	-	-	-	-	-	20
1,061	366	(S)	93	863	(S)	-	-	-	-	22
949	337	(S)	60	716	-	-	-	-	-	26
194	133	(S)	29	461	-	-	-	-	-	28
(S)	(S)	(S)	6	70	-	-	-	-	-	31
2,534	897	144	45	442	-	-	-	-	-	32
559	300	(S)	42	549	-	-	-	-	-	34
2,012	668	(S)	303	2,398	-	-	-	-	-	37
(S)	(S)	(S)	19	298	-	-	-	-	-	39
12,732	8,602	2,942	2,490	33,052	1,126	1	1	2	2	
796	648	(S)	155	2,482	(S)	-	-	-	-	20
142	99	(S)	24	486	-	-	-	-	-	23
-	-	(S)	5	79	-	-	-	-	-	25
252	148	(S)	106	1,568	(S)	-	-	-	-	26
(S)	(S)	119	69	1,555	-	-	-	-	-	27
1,342	703	148	238	3,600	6	-	-	-	-	28
6,032	3,886	941	1064	12,039	(S)	-	-	-	-	33
827	739	146	105	1,655	-	-	-	-	-	34
135	135	(S)	73	1,093	-	-	-	-	-	35
226	222	(S)	73	1,004	-	-	-	-	-	36
701	529	416	232	2,809	-	-	-	-	-	37
49,776	14,823	1,308	1,741	17,078	352	1	1	1	2	
176	72	(S)	8	112	-	-	-	-	-	27
1,275	374	(S)	76	622	-	-	-	-	-	28
9,133	2,610	(S)	161	1,173	-	-	-	-	-	32
36,728	10,713	711	1,262	12,398	352	-	-	-	-	33
814	367	88	67	792	-	-	-	-	-	34
(S)	(S)	(S)	6	84	-	-	-	-	-	36
4,168	3,316	4,423	1,972	32,037	226	-	7	9	5	
335	257	497	199	3,079	40	-	-	-	-	20
(S)	(S)	410	55	969	-	-	-	-	-	23
(S)	(S)	258	85	1,369	49	-	-	-	-	26
(S)	(S)	252	100	1,769	-	-	-	-	-	27
(S)	(S)	87	71	946	-	-	-	-	-	29
(S)	(S)	323	200	3,083	-	-	-	-	-	30
(S)	(S)	196	45	1,034	(S)	-	-	-	-	31
392	328	279	101	2,075	(S)	-	-	-	-	34
(S)	(S)	249	111	2,097	86	-	-	-	-	35
622	620	(S)	284	4,613	-	-	-	-	-	36
(S)	(S)	327	174	2,394	-	-	-	-	-	37
395	235	(S)	77	1,365	-	-	-	-	-	38
2,091	1,812	597	553	7,891	(S)	-	7	9	8	
-	-	(S)	4	66	-	-	-	-	-	23
(S)	(S)	(S)	(S)	(S)	-	-	-	-	-	28
(S)	(S)	(S)	32	500	(S)	-	-	-	-	30
(S)	(S)	(S)	22	299	-	-	-	-	-	32
1,252	1,019	(S)	141	1,882	-	-	-	-	-	33
(S)	(S)	(S)	36	633	-	-	-	-	-	34
(S)	(S)	50	48	748	-	-	-	-	-	35
(S)	(S)	(S)	97	1,190	-	-	-	-	-	37
(S)	(S)	(S)	11	153	-	-	-	-	-	38
25,723	14,974	4,400	6,002	43,327	339	1	2	4	1	
2,599	1,730	272	257	2,574	-	-	-	-	-	20
(S)	(S)	(S)	34	346	-	-	-	-	-	22
(S)	(S)	(S)	6	81	-	-	-	-	-	25
82	75	(S)	226	1,628	48	-	-	-	-	26
(S)	(S)	-	32	385	-	-	-	-	-	27
1,037	668	770	2,184	12,315	(S)	-	-	-	-	28
(S)	(S)	(S)	148	1,006	-	-	-	-	-	29
(S)	(S)	70	94	903	-	-	-	-	-	30
3,059	970	406	367	2,778	-	-	-	-	-	32
14,466	8,313	2,149	1,495	11,769	272	-	-	-	-	33
808	647	121	78	1,014	-	-	-	-	-	34
(S)	(S)	61	92	1,125	(S)	-	-	-	-	35
1,419	1,025	-	458	2,921	(S)	-	-	-	-	36
884	629	(S)	507	4,094	-	-	-	-	-	37

TABLE 10. Consumption for Heat and Power, for SMSA's With 40,000

Code	Standard consolidated area, standard metropolitan statistical area, and major industry groups	Total cost of purchased fuels and electric energy	Purchased fuels							
			Total cost	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity	Cost	Quantity	Cost	Quantity	Cost
		($1,000)	($1,000)	(1,000 tons)	($1,000)	(1,000 tons)	($1,000)	(1,000 barrels)	($1,000)
		A	B	C	D	E	F	G	H
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued								
	Canton, Ohio, total	29,778	17,736	483	2,631	104	1,577	429	1,686
20	Food and kindred products	1,328	492	23	134	-	-	(S)	(S)
28	Chemicals and allied products	235	45	-	-	-	-	(S)	(S)
30	Rubber and plastics products, n.e.c.	437	191	18	110	-	-	-	-
32	Stone, clay and glass products	2,723	1,970	90	512	-	-	(S)	(S)
33	Primary metal industries	19,892	12,635	226	1,274	(S)	(S)	406	1,567
34	Fabricated metal products	1,423	664	11	53	-	-	(S)	(S)
35	Machinery, except electrical	1,507	793	(S)	(S)	-	-	(S)	(S)
	Chattanooga, Tenn.-Ga., total	11,598	6,582	318	1,896	33	996	57	235
20	Food and kindred products	1,105	686	(S)	(S)	-	-	(S)	(S)
22	Textile mill products	2,079	1,038	89	642	-	-	(S)	(S)
23	Apparel and related products	26	(S)	-	-	-	-	-	-
26	Paper and allied products	928	573	(S)	(S)	-	-	(S)	(S)
28	Chemicals and allied products	1,084	294	(S)	(S)	-	-	(S)	(S)
32	Stone, clay and glass products	1,847	1,310	(S)	(S)	-	-	(S)	(S)
33	Primary metal industries	2,453	1,366	(S)	(S)	21	647	(S)	(S)
34	Fabricated metal products	1,125	811	(S)	(S)	(S)	(S)	13	67
35	Machinery, except electrical	222	111	(S)	(S)	(S)	(S)	(S)	(S)
	Chicago, Ill., total	267,436	154,593	2,661	19,280	1,925	43,574	9,174	36,408
20	Food and kindred products	28,065	15,555	729	5,201	-	-	796	3,301
23	Apparel and related products	1,338	450	(S)	(S)	-	-	43	178
25	Furniture and fixtures	2,982	1,393	13	130	-	-	140	569
26	Paper and allied products	8,441	4,277	140	993	-	-	(S)	(S)
27	Printing and publishing	8,437	2,378	(S)	(S)	-	-	240	893
28	Chemicals and allied products	17,580	9,603	(S)	(S)	(S)	(S)	624	2,391
29	Petroleum and coal products	8,116	4,259	(S)	(S)	-	-	(S)	(S)
32	Stone, clay and glass products	12,273	7,934	(S)	(S)	(S)	(S)	483	1,994
33	Primary metal industries	98,675	75,668	399	2,936	1,894	43,138	2,963	11,326
34	Fabricated metal products	21,501	9,870	80	542	(S)	(S)	811	3,458
35	Machinery, except electrical	18,621	7,579	193	1,459	(S)	(S)	846	3,615
36	Electrical machinery	17,562	7,084	192	1,350	(S)	(S)	743	2,926
37	Transportation equipment	7,034	2,254	120	717	-	-	209	739
39	Miscellaneous manufacturing, including ordnance	3,646	1,346	4	55	-	-	162	743
	Cincinnati, Ohio-Ky., total	37,508	17,159	874	6,551	(S)	(S)	320	1,237
20	Food and kindred products	4,121	2,143	160	1,206	-	-	8	34
22	Textile mill products	209	137	(S)	(S)	-	-	-	-
23	Apparel and related products	177	64	(S)	(S)	-	-	-	-
25	Furniture and fixtures	502	218	10	89	-	-	(S)	(S)
26	Paper and allied products	3,112	1,659	183	1,283	-	-	29	131
28	Chemicals and allied products	6,190	3,210	197	1,419	-	-	59	222
29	Petroleum and coal products	1,503	1,002	-	-	(S)	(S)	(S)	(S)
30	Rubber and plastics products, n.e.c.	876	315	(S)	(S)	-	-	(S)	(S)
33	Primary metal industries	5,852	3,025	(S)	(S)	(S)	(S)	98	386
34	Fabricated metal products	2,332	1,043	13	114	-	-	15	65
35	Machinery, except electrical	2,559	1,109	(S)	(S)	-	-	(S)	(S)
36	Electrical machinery	1,057	366	(S)	(S)	-	-	(S)	(S)
37	Transportation equipment	5,348	1,528	104	719	-	-	(S)	(S)
	Cleveland, Ohio, total	103,873	57,629	1,553	10,451	956	14,117	1,636	6,348
20	Food and kindred products	4,139	2,036	42	332	-	-	(S)	(S)
22	Textile mill products	636	266	(S)	(S)	-	-	(S)	(S)
23	Apparel and related products	834	327	-	-	-	-	(S)	(S)
24	Lumber and wood products	140	36	-	-	-	-	-	-
25	Furniture and fixtures	636	272	(S)	(S)	-	-	(S)	(S)
26	Paper and allied products	1,405	545	(S)	(S)	-	-	(S)	(S)
27	Printing and publishing	1,528	462	-	-	-	-	-	-
28	Chemicals and allied products	12,216	7,589	676	4,608	(S)	(S)	39	169
29	Petroleum and coal products	1,877	1,061	(S)	(S)	-	-	(S)	(S)
30	Rubber and plastics products, n.e.c.	1,436	558	(S)	(S)	(S)	(S)	(S)	(S)
32	Stone, clay and glass products	3,520	2,309	(S)	(S)	-	-	(S)	(S)
33	Primary metal industries	44,644	31,503	316	1,981	928	13,868	1,182	3,894
34	Fabricated metal products	7,971	3,116	55	382	(S)	(S)	(S)	(S)
35	Machinery, except electrical	6,204	2,212	38	271	-	-	45	193
36	Electrical machinery	4,425	1,786	30	233	-	-	(S)	(S)
37	Transportation equipment	10,780	2,999	217	1,409	(S)	(S)	(S)	(S)
38	Instruments and related products	325	104	-	-	-	-	(S)	(S)
39	Miscellaneous manufacturing, including ordnance	641	448	(S)	(S)	-	-	28	119

See footnotes at end of table.

or More Manufacturing Employees, by Industry Groups: 1962-Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns--(See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
18,080	10,451	1,391	1,340	12,042	43	3	1	1	3	
311	214	(S)	59	836	-	-	-	-	-	20
(S)	(S)	(S)	19	190	-	-	-	-	-	28
97	63	18	19	246	-	-	-	-	-	30
2,453	1,411	(S)	62	753	-	-	-	-	-	32
12,475	7,153	(S)	958	7,257	43	-	-	-	-	33
773	502	(S)	54	759	-	-	-	-	-	34
(S)	(S)	(S)	79	714	-	-	-	-	-	35
5,798	3,157	298	828	5,016	(S)	1	12	1	1	
1,058	569	(S)	54	419	-	-	-	-	-	20
513	284	(S)	156	1,041	-	-	-	-	-	22
(S)	(S)	(S)	(S)	(S)	-	-	-	-	-	23
(S)	(S)	(S)	68	355	-	-	-	-	-	26
118	71	(S)	168	790	-	-	-	-	-	28
(S)	(S)	(S)	101	537	-	-	-	-	-	32
744	576	(S)	209	1,087	-	-	-	-	-	33
580	400	(S)	34	314	-	-	-	-	-	34
82	79	(S)	12	111	-	-	-	-	-	35
95,502	45,257	10,074	8,502	112,843	806	1	2	2	2	
11,968	5,769	1,284	898	12,510	(S)	-	-	-	-	20
145	110	(S)	44	888	-	-	-	-	-	23
735	527	167	89	1,589	-	-	-	-	-	25
(S)	(S)	732	305	4,164	48	-	-	-	-	26
1,391	741	636	380	6,059	-	-	-	-	-	27
7,969	3,750	912	644	7,977	(S)	-	-	-	-	28
6,838	2,614	525	399	3,857	(S)	-	-	-	-	29
5,053	2,242	1,169	319	4,339	(S)	-	-	-	-	32
40,796	17,573	695	2,116	23,007	401	-	-	-	-	33
7,042	4,314	(S)	698	11,631	(S)	-	-	-	-	34
2,913	1,746	(S)	734	11,042	(S)	-	-	-	-	35
3,322	2,136	(S)	770	10,478	106	-	-	-	-	36
950	650	148	419	4,780	(S)	-	-	-	-	37
309	273	275	118	2,300	-	-	-	-	-	39
11,504	7,071	1,689	1,689	20,349	71	1	1	2	1	
(S)	(S)	188	149	1,978	17	-	-	-	-	20
(S)	(S)	-	5	72	-	-	-	-	-	22
(S)	(S)	(S)	(S)	(S)	-	-	-	-	-	23
138	95	(S)	15	284	(S)	-	-	-	-	25
226	151	94	117	1,453	(S)	-	-	-	-	26
2,490	1,329	240	283	2,980	(S)	-	-	-	-	38
1,629	792	(S)	54	501	-	-	-	-	-	29
(S)	(S)	(S)	49	561	-	-	-	-	-	30
2,211	1,194	-	258	2,827	-	-	-	-	-	33
1,112	813	51	79	1,289	(S)	-	-	-	-	34
630	382	575	92	1,450	(S)	-	-	-	-	35
274	288	(S)	54	691	(S)	-	-	-	-	36
515	370	(S)	403	3,820	-	-	-	-	-	37
36,735	22,201	4,512	3,907	46,244	437	1	10	2	2	
1,648	1,060	176	145	2,103	-	-	-	-	-	20
269	156	85	38	370	-	-	-	-	-	22
(S)	(S)	(S)	26	507	-	-	-	-	-	23
(S)	(S)	(S)	4	104	-	-	-	-	-	24
(S)	(S)	109	18	364	-	-	-	-	-	25
451	293	73	64	860	-	-	-	-	-	26
469	345	117	59	1,066	-	-	-	-	-	27
3,338	2,182	(S)	446	4,627	173	-	-	-	-	28
1,141	596	(S)	104	816	(S)	-	-	-	-	29
234	150	101	69	878	-	-	-	-	-	30
2,687	1,657	111	92	1,211	(S)	-	-	-	-	32
16,154	9,030	2,730	1,345	13,141	160	-	-	-	-	33
3,554	2,227	311	301	4,855	-	-	-	-	-	34
1,908	1,359	389	247	3,992	-	-	-	-	-	35
1,339	863	154	176	2,639	-	-	-	-	-	36
2,457	1,516	(S)	699	7,781	-	-	-	-	-	37
(S)	(S)	54	14	221	-	-	-	-	-	38
439	298	(S)	10	193	-	-	-	-	-	39

TABLE 10. Consumption for Heat and Power, for SMSA's With 40,000

Code	Standard consolidated area, standard metropolitan statistical area, and major industry groups	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels							
			Total cost ($1,000)	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 barrels)	Cost ($1,000)
		A	B	C	D	E	F	G	H
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued								
	Columbus, Ohio, total	17,103	8,424	311	2,310	9	317	(S)	(S)
20	Food and kindred products	1,972	949	49	320	-	-	(S)	(S)
25	Furniture and fixtures	115	43	(S)	(S)	-	-	-	-
26	Paper and allied products	396	188	(S)	(S)	-	-	-	-
27	Printing and publishing	283	82	-	-	-	-	(S)	(S)
31	Leather and leather products	84	28	-	-	-	-	-	-
32	Stone, clay and glass products	2,326	1,749	(S)	(S)	-	-	(S)	(S)
33	Primary metal industries	1,657	1,237	(S)	(S)	(S)	(S)	(S)	(S)
34	Fabricated metal products	1,944	881	35	268	(S)	(S)	(S)	(S)
35	Machinery, except electrical	1,813	744	(S)	(S)	(S)	(S)	(S)	(S)
36	Electrical machinery	2,082	774	(S)	(S)	-	-	(S)	(S)
37	Transportation equipment	1,780	445	(S)	(S)	-	-	(S)	(S)
38	Instruments and related products	145	47	-	-	-	-	-	-
	Dallas, Tex., total	18,888	7,628	(S)	(S)	(S)	(S)	7	30
20	Food and kindred products	3,515	1,334	-	-	-	-	(S)	(S)
22	Textile mill products	163	54	-	-	-	-	(S)	(S)
23	Apparel and related products	817	104	-	-	-	-	-	-
25	Furniture and fixtures	228	80	-	-	-	-	-	-
27	Printing and publishing	698	106	-	-	-	-	(S)	(S)
28	Chemicals and allied products	895	430	-	-	-	-	(S)	(S)
34	Fabricated metal products	826	263	-	-	-	-	-	-
35	Machinery, except electrical	1,388	407	(S)	(S)	(S)	(S)	-	-
36	Electrical machinery	2,167	325	-	-	-	-	-	-
37	Transportation equipment	1,896	329	-	-	-	-	(S)	(S)
38	Instruments and related products	141	72	-	-	-	-	-	-
	Dayton, Ohio, total	25,613	11,902	731	5,629	(S)	(S)	(S)	(S)
20	Food and kindred products	1,852	996	26	183	-	-	-	-
22	Textile mill products	83	49	-	-	-	-	-	-
26	Paper and allied products	2,042	1,201	131	1,035	-	-	(S)	(S)
27	Printing and publishing	1,594	575	-	-	-	-	(S)	(S)
30	Rubber and plastics products, n.e.c.	2,223	758	(S)	(S)	-	-	(S)	(S)
32	Stone, clay and glass products	2,402	1,819	(S)	(S)	(S)	(S)	(S)	(S)
33	Primary metal industries	2,815	1,150	(S)	(S)	(S)	(S)	(S)	(S)
35	Machinery, except electrical	2,567	1,145	95	704	(S)	(S)	(S)	(S)
36	Electrical machinery	6,734	3,018	(S)	(S)	-	-	(S)	(S)
37	Transportation equipment	1,702	427	(S)	(S)	-	-	(S)	(S)
	Denver, Colo., total	15,303	6,464	90	487	11	375	218	699
20	Food and kindred products	3,374	1,725	85	456	(S)	(S)	(S)	(S)
23	Apparel and related products	77	43	-	-	-	-	-	-
24	Lumber and wood products	123	71	(S)	(S)	-	-	(S)	(S)
26	Paper and allied products	301	131	-	-	-	-	(S)	(S)
27	Printing and publishing	560	159	-	-	-	-	-	-
28	Chemicals and allied products	1,012	346	-	-	-	-	(S)	(S)
29	Petroleum and coal products	859	343	-	-	(S)	(S)	(S)	(S)
36	Electrical machinery	281	70	-	-	-	-	-	-
	Detroit, Mich., total	199,214	119,548	3,456	28,755	982	20,704	3,691	14,534
20	Food and kindred products	8,000	4,616	(S)	(S)	-	-	157	634
23	Apparel and related products	918	282	(S)	(S)	-	-	(S)	(S)
27	Printing and publishing	1,862	393	(S)	(S)	-	-	-	-
28	Chemicals and allied products	19,087	13,117	1,064	8,411	-	-	116	457
30	Rubber and plastics products, n.e.c.	3,064	1,612	(S)	(S)	-	-	54	260
32	Stone, clay and glass products	4,837	3,216	168	1,345	(S)	(S)	79	368
33	Primary metal industries	81,706	62,105	721	6,308	900	18,323	2,346	9,079
34	Fabricated metal products	11,503	4,787	(S)	(S)	(S)	(S)	191	901
35	Machinery, except electrical	11,508	4,034	(S)	(S)	(S)	(S)	246	1,021
37	Transportation equipment	48,287	21,493	1,053	8,798	70	1,970	370	1,308
39	Miscellaneous manufacturing, including ordnance	703	413	(S)	(S)	-	-	(S)	(S)
	Flint, Mich., total	21,162	8,389	437	3,493	(S)	(S)	117	460
27	Printing and publishing	91	32	-	-	-	-	-	-
34	Fabricated metal products	1,562	409	(S)	(S)	-	-	(S)	(S)
37	Transportation equipment	17,374	6,324	368	3,128	(S)	(S)	(S)	(S)

See footnotes at end of table.

or More Manufacturing Employees, by Industry Groups: 1962–Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns– (See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
8,245	4,756	636	628	8,679	(S)	1	-	2	2	
759	504	(S)	66	1,023	(S)	-	-	-	-	20
(S)	(S)	(S)	3	72	-	-	-	-	-	25
(S)	(S)	(S)	17	208	-	-	-	-	-	26
(S)	(S)	(S)	13	201	-	-	-	-	-	27
(S)	(S)	(S)	2	56	-	-	-	-	-	31
2,885	1,446	216	54	577	-	-	-	-	-	32
716	415	(S)	28	420	(S)	-	-	-	-	33
716	476	74	71	1,063	-	-	-	-	-	34
982	565	(S)	77	1,069	-	-	-	-	-	35
992	548	(S)	106	1,308	-	-	-	-	-	36
310	183	(S)	110	1,335	-	-	-	-	-	37
(S)	(S)	-	6	98	-	-	-	-	-	38
19,471	5,786	1,782	962	11,260	46	-	1	9	4	
3,160	1,068	(S)	177	2,181	(S)	-	-	-	-	20
(S)	(S)	-	12	109	-	-	-	-	-	22
87	52	52	33	713	-	-	-	-	-	23
(S)	(S)	(S)	16	148	-	-	-	-	-	25
91	57	48	41	592	-	-	-	-	-	27
1,565	386	(S)	37	465	10	-	-	-	-	28
(S)	(S)	83	31	563	-	-	-	-	-	34
(S)	(S)	(S)	68	981	-	-	-	-	-	35
(S)	(S)	(S)	183	1,842	-	-	-	-	-	36
1,135	315	(S)	178	1,567	-	-	-	-	-	37
(S)	(S)	(S)	5	69	-	-	-	-	-	38
6,894	4,023	1,513	1,239	13,711	156	1	-	5	2	
(S)	(S)	250	54	856	-	-	-	-	-	20
(S)	(S)	(S)	2	34	-	-	-	-	-	22
211	119	(S)	73	841	(S)	-	-	-	-	26
720	412	(S	90	1,019	-	-	-	-	-	27
369	224	(S	139	1,465	-	-	-	-	-	30
172	109	(S)	51	583	(S)	-	-	-	-	32
473	279	(S)	186	1,665	(S)	-	-	-	-	33
464	309	92	103	1,422	(S)	-	-	-	-	35
2,549	1,399	739	372	3,716	(S)	-	-	-	-	36
355	227	76	122	1,275	-	-	-	-	-	37
16,258	4,122	781	690	8,839	93	1	24	1	15	
3,673	962	67	117	1,649	13	-	-	-	-	20
(S)	(S)	(S)	(S)	(S)	-	-	-	-	-	23
(S)	(S)	(S)	3	52	-	-	-	-	-	24
455	102	(S)	14	170	-	-	-	-	-	26
(S)	(S)	68	21	401	-	-	-	-	-	27
1,415	280	(S)	62	666	(S)	-	-	-	-	28
(S)	(S)	(S)	60	516	-	-	-	-	-	29
(S)	(S)	(S)	10	211	-	-	-	-	-	36
154,113	43,034	12,521	6,590	79,666	1,458	1	5	2	2	
3,401	1,941	1,509	209	3,384	-	-	-	-	-	20
165	105	(S)	45	636	-	-	-	-	-	23
(S)	(S)	270	84	1,469	-	-	-	-	-	27
7,296	2,984	1,265	601	5,970	797	-	-	-	-	28
(S)	(S)	(S)	112	1,452	105	-	-	-	-	30
1,245	735	(S)	121	1,621	(S)	-	-	-	-	32
122,502	26,200	2,195	1,829	19,601	352	-	-	-	-	33
3,653	2,404	717	403	6,716	(S)	-	-	-	-	34
3,448	1,952	849	508	7,474	(S)	-	-	-	-	35
8,524	4,639	4,778	2,345	26,794	71	-	-	-	-	37
(S)	(S)	(S)	15	290	-	-	-	-	-	39
(S)	(S)	496	1,174	12,773	(S)	1	1	-	.1	
(S)	(S)	(S)	4	59	-	-	-	-	-	27
(S)	(S)	(S)	116	1,153	-	-	-	-	-	34
3,303	1,625	396	1,025	11,050	(S)	-	-	-	-	37

TABLE 10. Consumption for Heat and Power, for SMSA's With 40,000

Code	Standard consolidated area, standard metropolitan statistical area, and major industry groups	Total cost of purchased fuels and electric energy	Purchased fuels						
			Total cost	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity	Cost	Quantity	Cost	Quantity	Cost
		($1,000)	($1,000)	(1,000 tons)	($1,000)	(1,000 tons)	($1,000)	(1,000 barrels)	($1,000)
		A	B	C	D	E	F	G	H
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued								
	Fort Worth, Tex., total	10,363	4,103	-	-	(S)	(S)	(S)	(S)
20	Food and kindred products	1,948	627	-	-	-	-	(S)	(S)
26	Paper and allied products	195	57	-	-	-	-	-	-
27	Printing and publishing	172	33	-	-	-	-	-	-
29	Petroleum and coal products	324	239	-	-	-	-	-	-
33	Primary metal industries	680	249	-	-	(S)	(S)	-	-
34	Fabricated metal products	339	148	-	-	(S)	(S)	(S)	(S)
35	Machinery, except electrical	681	302	-	-	(S)	(S)	-	-
37	Transportation equipment	2,653	562	-	-	-	-	(S)	(S)
	Gary-Hammond-East Chicago, Ind., total	93,947	59,034	1,306	9,309	207	1,241	6,468	22,353
20	Food and kindred products	2,356	1,971	(S)	(S)	-	-	30	122
26	Paper and allied products	864	426	-	-	-	-	(S)	(S)
28	Chemicals and allied products	6,835	4,345	(S)	(S)	(S)	(S)	68	208
29	Petroleum and coal products	4,187	3,242	(S)	(S)	-	-	(S)	(S)
32	Stone, clay and glass products	4,860	3,154	(S)	(S)	(S)	(S)	48	194
33	Primary metal industries	69,590	43,609	565	3,976	155	804	6,065	20,847
34	Fabricated metal products	2,589	1,007	25	174	(S)	(S)	66	278
37	Transportation equipment	936	516	-	-	(S)	(S)	92	339
	Grand Rapids, Mich., total	13,519	6,110	(S)	(S)	(S)	(S)	112	449
20	Food and kindred products	947	470	(S)	(S)	-	-	(S)	(S)
22	Textile mill products	108	32	-	-	-	-	(S)	(S)
25	Furniture and fixtures	1,067	427	29	220	(S)	(S)	(S)	(S)
34	Fabricated metal products	2,013	884	(S)	(S)	-	-	(S)	(S)
36	Electrical machinery	1,034	550	(S)	(S)	-	-	(S)	(S)
39	Miscellaneous manufacturing, including ordnance	52	23	(S)	(S)	-	-	-	-
	Greensboro-High Point, N.C., total	6,473	2,906	58	501	(S)	(S)	137	554
20	Food and kindred products	638	337	(S)	(S)	-	-	22	103
22	Textile mill products	3,233	1,255	43	352	(S)	(S)	38	110
23	Apparel and related products	150	59	(S)	(S)	-	-	(S)	(S)
25	Furniture and fixtures	421	131	8	72	-	-	(S)	(S)
26	Paper and allied products	150	64	(S)	(S)	-	-	(S)	(S)
28	Chemicals and allied products	167	167	(S)	(S)	-	-	12	58
32	Stone, clay and glass products	684	540	-	-	-	-	(S)	(S)
34	Fabricated metal products	170	78	-	-	-	-	(S)	(S)
	Hartford, Conn., total	15,562	6,276	5	64	(S)	(S)	1,457	4,397
20	Food and kindred products	678	326	-	-	-	-	50	177
22	Textile mill products	816	630	-	-	-	-	(S)	(S)
26	Paper and allied products	883	459	-	-	-	-	131	353
28	Chemicals and allied products	605	(S)	-	-	-	-	(S)	(S)
34	Fabricated metal products	938	429	-	-	-	-	58	226
35	Machinery, except electrical	3,175	1,195	(S)	(S)	-	-	231	790
36	Electrical machinery	449	186	-	-	-	-	(S)	(S)
	Houston, Tex., total	88,252	58,286	(S)	(S)	(S)	(S)	150	408
20	Food and kindred products	3,307	1,475	-	-	-	-	-	-
24	Lumber and wood products	213	117	-	-	-	-	-	-
26	Paper and allied products	2,861	1,286	-	-	-	-	-	-
27	Printing and publishing	311	41	-	-	-	-	-	-
28	Chemicals and allied products	20,811	9,752	-	-	-	-	-	-
29	Petroleum and coal products	43,000	37,484	-	-	-	-	(S)	(S)
30	Rubber and plastics products	325	58	-	-	-	-	-	-
32	Stone, clay and glass products	5,007	3,215	-	-	-	-	(S)	(S)
33	Primary metal industries	6,749	2,999	(S)	(S)	(S)	(S)	(S)	(S)
34	Fabricated metal products	2,056	849	(S)	(S)	-	-	-	-
35	Machinery, except electrical	2,502	744	-	-	-	-	(S)	(S)
	Indianapolis, Ind., total	24,490	9,644	473	2,771	28	729	486	1,961
20	Food and kindred products	4,580	2,120	129	813	-	-	56	249
27	Printing and publishing	358	47	-	-	-	-	(S)	(S)
28	Chemicals and allied products	1,913	821	(S)	(S)	(S)	(S)	24	106
32	Stone, clay and glass products	1,458	1,045	(S)	(S)	-	-	(S)	(S)
33	Primary metal industries	2,115	1,079	(S)	(S)	(S)	(S)	51	214
35	Machinery, except electrical	1,607	607	22	139	(S)	(S)	39	180
36	Electrical machinery	1,904	539	(S)	(S)	-	-	11	45
37	Transportation equipment	6,872	2,223	122	651	(S)	(S)	146	535

See footnotes at end of table.

or More Manufacturing Employees, by Industry Groups: 1962 -Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns– (See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
13,078	3,551	500	618	6,260	-	-	-	6	4	
1,618	583	(S)	128	1,321	-	-	-	-	-	20
150	54	(S)	12	138	-	-	-	-	-	26
(S)	(S)	-	11	139	-	-	-	-	-	27
(S)	(S)	-	8	85	-	-	-	-	-	29
607	185	(S)	51	431	-	-	-	-	-	33
(S)	(S)	53	12	191	-	-	-	-	-	34
(S)	(S)	51	27	379	-	-	-	-	-	35
2,205	521	(S)	231	2,091	-	-	-	-	-	37
70,171	25,534	597	3,131	34,913	2,398	1	1	1	1	
3,001	1,161	(S)	22	385	(S)	-	-	-	-	20
(S)	(S)	-	41	438	-	-	-	-	-	26
4,146	1,735	137	273	2,490	(S)	-	-	-	-	28
8,480	3,046	(S)	102	945	(S)	-	-	-	-	29
921	447	70	126	1,706	(S)	-	-	-	-	32
51,198	17,824	158	2,343	25,981	1,437	-	-	-	-	33
930	470	81	123	1,582	-	-	-	-	-	34
322	169	(S)	31	420	-	-	-	-	-	37
4,416	2,777	552	515	7,409	27	-	11	6	10	
520	314	66	29	477	-	-	-	-	-	20
(S)	(S)	-	6	76	-	-	-	-	-	22
140	84	91	37	640	(S)	-	-	-	-	25
925	590	116	65	1,129	(S)	-	-	-	-	34
(S)	(S)	(S)	35	484	-	-	-	-	-	36
(S)	(S)	-	(S)	(S)	-	-	-	-	-	39
1,656	910	910	338	3,567	-	2	5	12	3	
261	213	(S)	20	301	-	-	-	-	-	20
(S)	(S)	687	217	1,978	-	-	-	-	-	22
(S)	(S)	(S)	4	91	-	-	-	-	-	23
-	-	17	17	290	-	-	-	-	-	25
(S)	(S)	18	6	86	-	-	-	-	-	26
106	57	(S)	-	-	-	-	-	-	-	28
(S)	(S)	51	13	144	-	-	-	-	-	32
(S)	(S)	(S)	6	92	-	-	-	-	-	34
1,257	1,378	391	634	9,286	28	1	4	12	3	
70	70	79	18	352	-	-	-	-	-	20
-	-	(S)	11	186	(S)	-	-	-	-	22
(S)	(S)	(S)	28	424	(S)	-	-	-	-	26
-	-	-	(S)	(S)	(S)	-	-	-	-	28
153	141	62	25	509	-	-	-	-	-	34
182	277	(S)	111	1,980	-	-	-	-	-	35
(S)	(S)	(S)	13	263	-	-	-	-	-	36
261,477	54,079	3,387	4,032	29,966	1,204	-	10	1	1	
4,043	1,169	306	153	1,832	-	-	-	-	-	20
(S)	(S)	(S)	6	96	-	-	-	-	-	24
3,639	735	551	219	1,575	(S)	-	-	-	-	26
(S)	(S)	(S)	20	270	-	-	-	-	-	27
43,777	8,570	1,182	1,743	11,059	319	-	-	-	-	28
181,668	37,436	(S)	851	5,516	671	-	-	-	-	29
(S)	(S)	(S)	21	267	-	-	-	-	-	30
13,470	2,706	(S)	220	1,792	(S)	-	-	-	-	32
10,315	2,081	197	487	3,750	(S)	-	-	-	-	33
1,747	597	(S)	89	1,207	-	-	-	-	-	34
2,040	515	(S)	163	1,758	-	-	-	-	-	35
5,404	2,708	1,475	1,318	14,846	44	2	5	5	5	
530	298	760	204	2,460	(S)	-	-	-	-	20
(S)	(S)	(S)	18	311	-	-	-	-	-	27
168	93	305	107	1,092	(S)	-	-	-	-	28
(S)	(S)	(S)	39	413	-	-	-	-	-	32
538	285	(S)	86	1,036	-	-	-	-	-	33
365	220	(S)	74	1,000	-	-	-	-	-	35
(S)	(S)	53	134	1,365	-	-	-	-	-	36
1,347	673	(S)	450	4,649	(S)	-	-	-	-	37

TABLE 10. Consumption for Heat and Power, for SMSA's With 40,000

Code	Standard consolidated area, standard metropolitan statistical area, and major industry groups	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels						
			Total cost ($1,000)	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 barrels)	Cost ($1,000)
		A	B	C	D	E	F	G	H
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued								
	Jersey City, N.J., total	26,110	14,235	104	1,011	7	200	3,755	9,672
20	Food and kindred products	3,737	2,125	(S)	(S)	-	-	609	1,740
23	Apparel and related products	1,133	418	-	-	-	-	(S)	(S)
25	Furniture and fixtures	168	82	-	-	-	-	(S)	(S)
26	Paper and allied products	1,029	591	(S)	(S)	-	-	191	465
27	Printing and publishing	421	116	-	-	-	-	(S)	(S)
28	Chemicals and allied products	3,848	2,408	(S)	(S)	(S)	(S)	582	1,518
31	Leather and leather products	162	42	-	-	-	-	(S)	(S)
33	Primary metal industries	2,085	954	(S)	(S)	(S)	(S)	157	453
34	Fabricated metal products	1,646	904	(S)	(S)	(S)	(S)	60	226
35	Machinery, except electrical	1,830	983	(S)	(S)	-	-	129	387
36	Electrical machinery	2,136	701	(S)	(S)	-	-	92	239
39	Miscellaneous manufacturing, including ordnance	572	218	(S)	(S)	-	-	33	115
	Kansas City, Mo.-Kans., total	35,689	15,343	(S)	(S)	(S)	(S)	515	1,482
20	Food and kindred products	7,294	3,734	(S)	(S)	-	-	(S)	(S)
23	Apparel and related products	499	162	-	-	-	-	(S)	(S)
26	Paper and allied products	1,243	551	-	-	-	-	26	82
27	Printing and publishing	935	139	-	-	-	-	(S)	(S)
28	Chemicals and allied products	1,752	971	(S)	(S)	-	-	(S)	(S)
32	Stone, clay and glass products	4,224	2,470	(S)	(S)	..	-	(S)	(S)
33	Primary metal industries	6,964	2,048	(S)	(S)	(S)	(S)	113	294
34	Fabricated metal products	1,385	579	-	-	-	-	20	85
37	Transportation equipment	3,199	1,010	(S)	(S)	-	-	(S)	(S)
	Lancaster, Pa., total	10,113	4,357	145	1,221	3	67	438	1,708
20	Food and kindred products	1,416	570	(S)	(S)	-	-	72	302
22	Textile mill products	237	62	(S)	(S)	-	-	(S)	(S)
23	Apparel and related products	327	140	(S)	(S)	-	-	30	102
27	Printing and publishing	152	22	-	-	-	-	(S)	(S)
31	Leather and leather products	135	44	(S)	(S)	-	-	(S)	(S)
32	Stone, clay and glass products	473	255	(S)	(S)	-	-	(S)	(S)
34	Fabricated metal products	1,101	476	(S)	(S)	(S)	(S)	46	147
35	Machinery, except electrical	1,045	508	(S)	(S)	(S)	(S)	58	248
36	Electrical machinery	1,039	159	(S)	(S)	-	-	(S)	(S)
	Lawrence-Haverhill, Mass.-N.H., total	6,924	3,115	52	576	(S)	(S)	562	1,572
22	Textile mill products	1,519	723	(S)	(S)	-	-	104	300
26	Paper and allied products	1,618	1,228	(S)	(S)	-	-	(S)	(S)
30	Rubber and plastics products, n.e.c.	606	118	-	-	-	-	(S)	(S)
31	Leather and leather products	412	110	(S)	(S)	-	-	(S)	(S)
34	Fabricated metal products	197	49	-	-	-	-	(S)	(S)
35	Machinery, except electrical	162	92	-	-	(S)	(S)	(S)	(S)
	Los Angeles-Long Beach, Calif., total	169,783	72,164	(S)	(S)	(S)	(S)	643	1,812
20	Food and kindred products	15,839	7,130	-	-	-	-	91	270
22	Textile mill products	715	287	-	-	-	-	(S)	(S)
23	Apparel and related products	1,961	440	-	-	-	-	(S)	(S)
24	Lumber and wood products	1,019	347	-	-	-	-	(S)	(S)
25	Furniture and fixtures	2,297	699	-	-	-	-	(S)	(S)
26	Paper and allied products	6,951	3,299	-	-	-	-	(S)	(S)
27	Printing and publishing	2,992	575	-	-	-	-	(S)	(S)
28	Chemicals and allied products	17,119	9,160	-	-	-	-	220	433
29	Petroleum and coal products	25,049	14,353	-	-	-	-	16	113
30	Rubber and plastics products, n.e.c.	6,807	2,077	-	-	-	-	20	60
32	Stone, clay and glass products	15,329	10,740	-	-	(S)	(S)	(S)	(S)
34	Fabricated metal products	11,166	3,965	-	-	(S)	(S)	(S)	(S)
35	Machinery, except electrical	8,826	2,831	-	-	(S)	(S)	(S)	(S)
36	Electrical machinery	10,588	2,421	-	-	(S)	(S)	(S)	(S)
37	Transportation equipment	17,016	4,135	-	-	-	-	126	418
38	Instruments and related products	2,189	402	-	-	-	-	(S)	(S)
39	Miscellaneous manufacturing, including ordnance	6,654	1,762	-	-	-	-	(S)	(S)
	Louisville, Ky.-Ind., total	32,352	13,922	1,109	5,785	17	521	196	819
20	Food and kindred products	4,349	2,312	212	1,163	-	-	45	186
21	Tobacco products	1,544	689	(S)	(S)	-	-	(S)	(S)
25	Furniture and fixtures	416	149	12	117	-	-	(S)	(S)
26	Paper and allied products	368	173	-	-	-	-	10	49
27	Printing and publishing	661	219	-	-	-	-	(S)	(S)
28	Chemicals and allied products	8,689	3,569	401	1,880	(S)	(S)	20	94
32	Stone, clay and glass products	3,765	2,044	(S)	(S)	-	-	(S)	(S)
34	Fabricated metal products	2,569	1,413	29	167	(S)	(S)	(S)	(S)
35	Machinery, except electrical	2,501	1,117	(S)	(S)	(S)	(S)	(S)	(S)

See footnotes at end of table.

or More Manufacturing Employees, by Industry Groups: 1962–Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns– (See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
2,123	1,696	1,656	871	11,875	57	1	15	3	5	
(S)	(S)	251	118	1,612	(S)	-	-	-	-	20
(S)	(S)	233	40	715	-	-	-	-	-	23
(S)	(S)	(S)	5	86	-	-	-	-	-	25
(S)	(S)	(S)	30	438	(S)	-	-	-	-	26
(S)	(S)	(S)	22	305	-	-	-	-	-	27
(S)	(S)	476	100	1,440	(S)	-	-	-	-	28
-	-	(S)	7	120	-	-	-	-	-	31
401	289	82	100	1,131	-	-	-	-	-	33
404	281	158	52	742	-	-	-	-	-	34
331	321	24	59	847	(S)	-	-	-	-	35
323	239	(S)	124	1,435	-	-	-	-	-	36
(S)	(S)	95	19	354	-	-	-	-	-	39
46,405	11,668	1,636	1,687	20,346	169	-	8	8	3	
11,188	3,007	186	257	3,560	(S)	-	-	-	-	20
(S)	(S)	104	17	337	-	-	-	-	-	23
1,364	399	70	51	692	(S)	-	-	-	-	26
384	128	(S)	57	796	-	-	-	-	-	27
3,195	782	86	58	781	(S)	-	-	-	-	28
8,618	1,981	338	175	1,754	(S)	-	-	-	-	32
5,896	1,412	(S)	456	4,916	-	-	-	-	-	33
669	277	217	44	806	-	-	-	-	-	34
2,040	522	334	201	2,189	-	-	-	-	-	37
1,162	889	472	405	5,756	-	1	8	6	3	
(S)	(S)	108	51	846	-	-	-	-	-	20
-	-	(S)	12	175	-	-	-	-	-	22
-	-	(S)	9	187	-	-	-	-	-	23
(S)	(S)	(S)	7	130	-	-	-	-	-	27
-	-	(S)	(S)	(S)	-	-	-	-	-	31
(S)	(S)	18	16	218	-	-	-	-	-	32
96	98	101	42	625	-	-	-	-	-	34
76	80	119	31	537	-	-	-	-	-	35
(S)	(S)	-	76	880	-	-	-	-	-	36
(S)	(S)	637	225	3,809	64	1	5	-	9	
(S)	(S)	(S)	50	796	-	-	-	-	-	22
(S)	(S)	(S)	32	390	(S)	-	-	-	-	26
(S)	(S)	(S)	20	488	(S)	-	-	-	-	30
(S)	(S)	56	12	302	-	-	-	-	-	31
(S)	(S)	(S)	7	148	-	-	-	-	-	34
(S)	(S)	-	3	70	-	-	-	-	-	35
139,174	60,755	8,057	8,937	97,619	31	-	3	3	2	
10,921	5,481	1,379	707	8,709	(S)	-	-	-	-	20
443	246	(S)	26	428	-	-	-	-	-	22
286	184	255	78	1,521	-	-	-	-	-	23
250	129	(S)	32	672	-	-	-	-	-	24
471	293	(S)	89	1,598	-	-	-	-	-	25
7,342	3,076	198	368	3,652	27	-	-	-	-	26
810	522	52	160	2,417	-	-	-	-	-	27
17,330	6,974	1,753	925	7,959	-	-	-	-	-	28
42,618	14,178	62	1,309	10,696	-	-	-	-	-	29
3,842	1,845	172	446	4,730	-	-	-	-	-	30
21,205	9,707	766	433	4,589	-	-	-	-	-	32
4,836	2,788	632	450	7,201	-	-	-	-	-	34
(S)	(S)	334	407	5,995	-	-	-	-	-	35
3,243	1,964	420	706	8,167	-	-	-	-	-	36
6,173	3,172	545	1,241	12,881	-	-	-	-	-	37
575	335	(S)	163	1,787	-	-	-	-	-	38
2,648	1,452	(S)	501	4,892	-	-	-	-	-	39
12,866	5,758	1,039	1,875	18,430	89	3	1	5	2	
1,667	872	91	152	2,037	(S)	-	-	-	-	20
(S)	(S)	(S)	71	855	-	-	-	-	-	21
(S)	(S)	21	16	267	(S)	-	-	-	-	25
(S)	(S)	(S)	12	195	-	-	-	-	-	26
(S)	(S)	92	34	442	-	-	-	-	-	27
(S)	(S)	114	685	5,120	-	-	-	-	-	28
3,142	938	92	186	1,721	(S)	-	-	-	-	32
2,084	1,048	113	91	1,156	(S)	-	-	-	-	34
353	206	194	127	1,384	-	-	-	-	-	35

TABLE 10. Consumption for Heat and Power, for SMSA's With 40,000

Code	Standard consolidated area, standard metropolitan statistical area, and major industry groups	Total cost of purchased fuels and electric energy ($1,000)	Purchased fuels							
			Total cost ($1,000)	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 tons)	Cost ($1,000)	Quantity (1,000 barrels)	Cost ($1,000)
		A	B	C	D	E	F	G	H
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued								
	Memphis, Tenn., total	17,772	7,077	14	131	19	470	100	349
20	Food and kindred products	3,478	1,540	(S)	(S)	-	-	(S)	(S)
24	Lumber and wood products	528	197	(S)	(S)	-	-	(S)	(S)
25	Furniture and fixtures	258	78	-	-	-	-	-	-
26	Paper and allied products	1,755	709	-	-	-	-	(S)	(S)
28	Chemicals and allied products	5,363	1,821	(S)	(S)	-	-	(S)	(S)
35	Machinery, except electrical	766	482	-	-	(S)	(S)	(S)	(S)
36	Electrical machinery	203	50	-	-	-	-	-	-
	Miami, Fla., total	8,323	3,380	(S)	(S)	-	-	779	2,059
20	Food and kindred products	1,631	559	(S)	(S)	-	-	61	222
25	Furniture and fixtures	284	65	-	-	-	-	(S)	(S)
27	Printing and publishing	484	76	-	-	-	-	-	-
34	Fabricated metal products	974	299	-	-	-	-	(S)	(S)
37	Transportation equipment	90	18	-	-	-	-	-	-
	Milwaukee, Wis., total	46,731	24,538	662	6,282	(S)	(S)	814	3,511
20	Food and kindred products	6,230	3,843	150	1,329	-	-	(S)	(S)
22	Textile mill products	168	76	(S)	(S)	-	-	(S)	(S)
23	Apparel and related products	487	117	(S)	(S)	-	-	(S)	(S)
24	Lumber and wood products	128	70	(S)	(S)	-	-	(S)	(S)
25	Furniture and fixtures	248	133	(S)	(S)	-	-	(S)	(S)
26	Paper and allied products	1,452	868	(S)	(S)	-	-	(S)	(S)
27	Printing and publishing	1,193	406	-	-	-	-	(S)	(S)
31	Leather and leather products	1,282	771	31	319	-	-	(S)	(S)
33	Primary metal industries	10,195	6,039	54	614	(S)	(S)	157	650
34	Fabricated metal products	4,078	2,100	25	245	-	-	90	389
35	Machinery, except electrical	9,634	4,750	152	1,503	(S)	(S)	189	795
36	Electrical machinery	3,719	1,280	39	369	-	-	26	101
37	Transportation equipment	2,122	825	(S)	(S)	-	-	(S)	(S)
38	Instruments and related products	1,171	329	(S)	(S)	-	-	(S)	(S)
	Minneapolis-St. Paul., Minn., total	33,121	15,051	103	1,059	4	107	723	2,744
20	Food and kindred products	7,458	3,861	25	254	(S)	(S)	221	707
22	Textile mill products	163	91	-	-	-	-	(S)	(S)
23	Apparel and related products	186	63	-	-	-	-	(S)	(S)
24	Lumber and wood products	836	311	(S)	(S)	-	-	(S)	(S)
25	Furniture and fixtures	214	74	(S)	(S)	-	-	(S)	(S)
26	Paper and allied products	2,380	1,699	(S)	(S)	-	-	(S)	(S)
28	Chemicals and allied products	2,042	833	(S)	(S)	-	-	65	262
29	Petroleum and coal products	1,371	380	(S)	(S)	-	-	41	151
33	Primary metal industries	1,440	816	-	-	(S)	(S)	(S)	(S)
34	Fabricated metal products	3,134	1,441	(S)	(S)	(S)	(S)	57	276
35	Machinery, except electrical	3,327	1,274	(S)	(S)	(S)	(S)	53	217
37	Transportation equipment	1,470	726	-	-	-	-	62	222
39	Miscellaneous manufacturing, including ordnance	1,388	560	(S)	(S)	-	-	(S)	(S)
	Nashville, Tenn., total	9,349	4,413	292	1,600	(S)	(S)	(S)	(S)
23	Apparel and related products	135	75	(S)	(S)	-	-	(S)	(S)
28	Chemicals and allied products	3,219	1,434	(S)	(S)	-	-	-	-
32	Stone, clay and glass products	2,168	980	(S)	(S)	(S)	(S)	(S)	(S)
34	Fabricated metal products	539	236	-	-	-	-	-	-
36	Electrical machinery	503	303	-	-	-	-	-	-
	New Haven, Conn., total	9,681	4,903	(S)	(S)	(S)	(S)	1,308	3,491
20	Food and kindred products	505	275	-	-	-	-	(S)	(S)
23	Apparel and related products	109	(S)	-	-	-	-	(S)	(S)
26	Paper and allied products	1,125	851	-	-	-	-	360	851
27	Printing and publishing	240	69	-	-	-	-	(S)	(S)
28	Chemicals and allied products	93	53	-	-	-	-	(S)	(S)
32	Stone, clay and glass products	431	295	(S)	(S)	-	-	88	249
33	Primary metal industries	1,532	775	(S)	(S)	-	-	91	269
34	Fabricated metal products	1,221	648	(S)	(S)	(S)	(S)	80	295
38	Instruments and related products	89	22	-	-	-	-	(S)	(S)
39	Miscellaneous manufacturing, including ordnance	1,124	652	-	-	-	-	(S)	(S)

See footnotes at end of table.

or More Manufacturing Employees, by Industry Groups: 1962–Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns– (See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
19,883	5,181	946	1,499	10,695	9	1	1	3	4	
4,662	1,298	172	228	1,938	-	-	-	-	-	20
(S)	(S)	115	27	331	9	-	-	-	-	24
152	71	(S)	13	180	-	-	-	-	-	25
2,510	631	(S)	158	1,046	-	-	-	-	-	26
6,167	1,565	153	599	3,542	-	-	-	-	-	28
642	183	(S)	32	284	-	-	-	-	-	35
(S)	(S)	(S)	14	153	-	-	-	-	-	36
681	411	890	302	4,943	(S)	-	13	20	6	
(S)	(S)	210	62	1,072	(S)	-	-	-	-	20
-	-	(S)	9	219	-	-	-	-	-	25
(S)	(S)	(S)	26	408	-	-	-	-	-	27
(S)	(S)	223	40	675	-	-	-	-	-	34
(S)	(S)	(S)	3	72	-	-	-	-	-	37
17,971	10,484	2,539	1,632	22,193	202	2	8	3	3	
3,441	1,722	370	160	2,387	85	-	-	-	-	20
(S)	(S)	(S)	4	92	(S)	-	-	-	-	22
(S)	(S)	(S)	20	370	-	-	-	-	-	23
(S)	(S)	(S)	2	58	-	-	-	-	-	24
(S)	(S)	(S)	5	115	-	-	-	-	-	25
193	122	(S)	36	584	(S)	-	-	-	-	26
255	201	87	50	787	-	-	-	-	-	27
263	140	223	27	511	(S)	-	-	-	-	31
5,992	3,298	106	345	4,156	9	-	-	-	-	33
2,357	1,409	57	147	1,978	-	-	-	-	-	34
2,791	1,826	(S)	358	4,884	42	-	-	-	-	35
1,114	688	122	193	2,439	(S)	-	-	-	-	36
368	269	(S)	112	1,297	(S)	-	-	-	-	37
354	184	(S)	65	842	-	-	-	-	-	38
22,120	9,147	1,994	1,294	18,070	197	9	5	6	4	
7,248	2,520	(S)	264	3,597	42	-	-	-	-	20
(S)	(S)	-	8	72	-	-	-	-	-	22
(S)	(S)	52	7	123	-	-	-	-	-	23
348	160	89	40	525	(S)	-	-	-	-	24
(S)	(S)	(S)	6	140	-	-	-	-	-	25
(S)	(S)	(S)	50	681	(S)	-	-	-	-	26
416	186	141	110	1,209	(S)	-	-	-	-	28
533	189	(S)	101	991	(S)	-	-	-	-	29
(S)	(S)	69	35	624	-	-	-	-	-	33
1,229	723	415	110	1,693	-	-	-	-	-	34
1,354	711	268	127	2,053	(S)	-	-	-	-	35
1,092	461	(S)	56	744	(S)	-	-	-	-	37
(S)	(S)	56	72	828	(S)	-	-	-	-	39
4,755	2,223	370	668	4,936	17	1	-	10	4	
41	24	(S)	3	60	-	-	-	-	-	23
363	181	(S)	255	1,785	(S)	-	-	-	-	28
1,335	428	65	232	1,188	-	-	-	-	-	32
361	188	48	23	303	-	-	-	-	-	34
548	303	-	23	200	-	-	-	-	-	36
1,047	751	371	311	4,778	50	-	3	15	5	
-	-	(S)	16	230	-	-	-	-	-	20
(S)	(S)	(S)	4	79	-	-	-	-	-	23
-	-	-	18	274	(S)	-	-	-	-	26
(S)	(S)	(S)	5	171	-	-	-	-	-	27
-	-	(S)	(S)	(S)	-	-	-	-	-	28
(S)	(S)	(S)	9	136	-	-	-	-	-	32
505	392	(S)	56	757	-	-	-	-	-	33
61	69	(S)	26	573	-	-	-	-	-	34
(S)	(S)	(S)	4	67	-	-	-	-	-	38
(S)	(S)	(S)	29	472	(S)	-	-	-	-	39

TABLE 10. Consumption for Heat and Power, for SMSA's With 40,000

Code	Standard consolidated area, standard metropolitan statistical area, and major industry groups	Total cost of purchased fuels and electric energy	Purchased fuels						
			Total cost	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity	Cost	Quantity	Cost	Quantity	Cost
		($1,000)	($1,000)	(1,000 tons)	($1,000)	(1,000 tons)	($1,000)	(1,000 barrels)	($1,000)
		A	B	C	D	E	F	G	H
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued								
	New Orleans, La., total	24,850	17,084	-	-	-	-	26	132
20	Food and kindred products	2,654	1,548	-	-	-	-	(S)	(S)
23	Apparel and related products	223	98	-	-	-	-	(S)	(S)
29	Petroleum and coal products	2,010	1,291	-	-	-	-	-	-
32	Stone, clay and glass products	2,589	1,560	-	-	-	-	(S)	(S)
35	Machinery, except electrical	80	21	-	-	-	-	-	-
37	Transportation equipment	696	176	-	-	-	-	(S)	(S)
	New York, N.Y., total	152,468	57,141	449	4,451	44	867	5,978	20,427
20	Food and kindred products	23,668	13,237	224	2,262	-	-	1,617	5,360
22	Textile mill products	7,974	2,974	-	-	-	-	224	889
23	Apparel and related products	16,962	3,481	(S)	(S)	-	-	(S)	(S)
25	Furniture and fixtures	2,879	932	-	-	-	-	83	397
26	Paper and allied products	6,038	2,650	77	764	-	-	375	1,156
27	Printing and publishing	12,116	2,056	(S)	(S)	-	-	128	568
28	Chemicals and allied products	9,394	4,130	(S)	(S)	(S)	(S)	560	1,601
30	Rubber and plastics products, n.e.c.	5,207	1,328	(S)	(S)	-	-	94	306
31	Leather and leather products	1,637	301	(S)	(S)	-	-	(S)	(S)
32	Stone, clay and glass products	6,665	3,627	(S)	(S)	-	-	392	1,346
33	Primary metal industries	9,422	4,805	(S)	(S)	32	740	620	1,899
34	Fabricated metal products	10,639	3,913	(S)	(S)	(S)	(S)	247	906
35	Machinery, except electrical	5,612	1,988	(S)	(S)	(S)	(S)	107	485
36	Electrical machinery	10,610	3,344	(S)	(S)	(S)	(S)	327	1,175
37	Transportation equipment	8,507	3,191	(S)	(S)	-	-	467	1,424
38	Instruments and related products	4,303	1,164	(S)	(S)	-	-	145	520
39	Miscellaneous manufacturing, including ordnance	8,279	2,799	(S)	(S)	-	-	256	929
	Newark, N.J., total	63,142	32,472	264	2,528	7	166	8,764	22,925
20	Food and kindred products	5,384	3,169	49	450	-	-	820	2,101
22	Textile mill products	888	386	-	-	-	-	(S)	(S)
23	Apparel and related products	530	210	-	-	-	-	(S)	(S)
25	Furniture and fixtures	405	211	-	-	-	-	(S)	(S)
26	Paper and allied products	4,902	3,043	(S)	(S)	(S)	(S)	598	1,455
27	Printing and publishing	1,144	325	(S)	(S)	-	-	45	176
28	Chemicals and allied products	12,157	6,933	43	374	-	-	2,305	5,961
30	Rubber and plastics products, n.e.c.	2,114	721	(S)	(S)	-	-	80	266
31	Leather and leather products	485	222	-	-	-	-	68	182
33	Primary metal industries	4,288	1,942	(S)	(S)	(S)	(S)	314	1,057
34	Fabricated metal products	4,742	1,991	(S)	(S)	(S)	(S)	218	888
35	Machinery, except electrical	4,607	2,027	(S)	(S)	(S)	(S)	291	1,025
36	Electrical machinery	5,669	1,689	(S)	(S)	-	-	356	1,053
37	Transportation equipment	2,258	1,015	-	-	-	-	223	627
38	Instruments and related products	770	283	(S)	(S)	-	-	54	201
39	Miscellaneous manufacturing, including ordnance	1,609	564	-	-	-	-	93	347
	Paterson-Clifton-Passaic, N.J., total	34,776	17,510	258	2,572	7	228	3,334	9,381
20	Food and kindred products	2,305	1,413	(S)	(S)	-	-	184	499
22	Textile mill products	4,362	2,891	(S)	(S)	-	-	(S)	(S)
23	Apparel and related products	914	283	(S)	(S)	-	-	(S)	(S)
26	Paper and allied products	3,632	2,219	(S)	(S)	-	-	433	1,044
27	Printing and publishing	1,188	371	-	-	-	-	30	112
28	Chemicals and allied products	4,772	2,832	(S)	(S)	-	-	908	2,363
30	Rubber and plastics products, n.e.c.	2,776	1,194	(S)	(S)	-	-	144	487
33	Primary metal industries	2,976	1,431	-	-	(S)	(S)	213	607
34	Fabricated metal products	2,253	959	(S)	(S)	(S)	(S)	88	296
35	Machinery, except electrical	1,084	436	(S)	(S)	(S)	(S)	(S)	(S)
36	Electrical machinery	1,734	605	-	-	-	-	90	289
38	Instruments and related products	1,002	318	(S)	(S)	-	-	80	214
39	Miscellaneous manufacturing, including ordnance	575	231	(S)	(S)	(S)	(S)	15	46

See footnotes at end of table.

or More Manufacturing Employees, by Industry Groups: 1962–Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns– (See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
78,256	16,377	575	729	7,766	4,147	(X)	1	3	4	
5,685	1,463	83	88	1,106	38	-	-	-	-	20
(S)	(S)	86	7	125	-	-	-	-	-	23
5,263	1,279	(S)	79	719	-	-	-	-	-	29
5,669	1,405	64	103	1,029	-	-	-	-	-	32
(S)	(S)	(S)	(S)	(S)	-	-	-	-	-	35
(S)	(S)	120	(S)	520	-	-	-	-	-	37
24,173	14,019	17,377	5,183	95,327	173	4	4	4	2	
7,137	3,715	1,900	596	10,431	112	-	-	-	-	20
1,942	464	1,621	260	5,000	-	-	-	-	-	22
691	500	2,556	676	13,481	(S)	-	-	-	-	23
185	119	416	107	1,947	-	-	-	-	-	25
(S)	(S)	(S)	217	3,388	26	-	-	-	-	26
(S)	(S)	964	504	10,060	-	-	-	-	-	27
2,496	1,097	870	297	5,264	12	-	-	-	-	28
(S)	(S)	824	231	3,879	(S)	-	-	-	-	30
(S)	(S)	201	55	1,336	-	-	-	-	-	31
(S)	(S)	1,080	183	3,038	(S)	-	-	-	-	32
2,045	1,637	(S)	252	4,617	9	-	-	-	-	33
2,465	1,697	1,264	355	6,726	-	-	-	-	-	34
806	585	789	182	3,624	(S)	-	-	-	-	35
1,621	1,227	925	388	7,266	-	-	-	-	-	36
(S)	(S)	1,000	319	5,316	7	-	-	-	-	37
(S)	(S)	345	165	3,139	-	-	-	-	-	38
(S)	(S)	1,550	334	5,480	-	-	-	-	-	39
5,140	4,198	2,655	2,489	30,670	200	1	2	3	2	
565	454	164	168	2,215	(S)	-	-	-	-	20
62	59	(S)	28	502	-	-	-	-	-	22
(S)	(S)	106	15	320	-	-	-	-	-	23
(S)	(S)	160	12	194	-	-	-	-	-	25
(S)	(S)	75	171	1,859	106	-	-	-	-	26
(S)	(S)	70	41	819	-	-	-	-	-	27
753	430	168	559	5,224	74	-	-	-	-	28
(S)	(S)	(S)	89	1,393	-	-	-	-	-	30
(S)	(S)	(S)	49	263	-	-	-	-	-	31
755	705	124	170	2,346	-	-	-	-	-	33
697	503	507	152	2,751	-	-	-	-	-	34
765	691	281	169	2,580	-	-	-	-	-	35
641	471	(S)	324	3,980	(S)	-	-	-	-	36
230	260	128	99	1,243	(S)	-	-	-	-	37
(S)	(S)	35	20	487	-	-	-	-	-	38
94	95	122	60	1,045	-	-	-	-	-	39
2,943	2,644	2,685	1,164	17,266	200	2	5	3	4	
(S)	(S)	377	61	892	(S)	-	-	-	-	20
(S)	(S)	237	77	1,471	(S)	-	-	-	-	22
(S)	(S)	141	43	631	(S)	-	-	-	-	23
(S)	(S)	87	112	1,413	190	-	-	-	-	26
(S)	(S)	103	47	817	-	-	-	-	-	27
(S)	(S)	279	125	1,940	(S)	-	-	-	-	28
(S)	(S)	124	109	1,582	-	-	-	-	-	30
660	492	(S)	119	1,545	-	-	-	-	-	33
391	394	258	78	1,294	-	-	-	-	-	34
129	82	76	31	648	-	-	-	-	-	35
121	101	215	81	1,129	-	-	-	-	-	36
61	67	(S)	59	684	-	-	-	-	-	38
66	56	92	19	344	-	-	-	-	-	39

TABLE 10. Consumption for Heat and Power, for SMSA's With 40,000

Code	Standard consolidated area, standard metropolitan statistical area, and major industry groups	Total cost of purchased fuels and electric energy	Purchased fuels						
			Total cost	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity	Cost	Quantity	Cost	Quantity	Cost
		($1,000)	($1,000)	(1,000 tons)	($1,000)	(1,000 tons)	($1,000)	(1,000 barrels)	($1,000)
		A	B	C	D	E	F	G	H
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued								
	Philadelphia, Pa.,-N.J., total	174,845	95,558	1,330	11,959	93	1,661	14,927	41,684
20	Food and kindred products	15,497	8,412	82	726	-	-	1,227	3,411
21	Tobacco products	156	44	-	-	-	-	(S)	(S)
22	Textile mill products	6,354	3,512	(S)	(S)	-	-	690	2,027
23	Apparel and related products	3,259	1,243	(S)	(S)	-	-	159	487
25	Furniture and fixtures	1,182	561	(S)	(S)	-	-	64	225
26	Paper and allied products	13,401	8,189	303	2,658	-	-	2,127	5,171
27	Printing and publishing	4,447	1,692	(S)	(S)	-	-	100	355
28	Chemicals and allied products	26,012	14,161	410	3,764	(S)	(S)	2,765	6,930
29	Petroleum and coal products	19,139	11,869	-	-	-	-	1,099	2,468
30	Rubber and plastics products, n.e.c.	5,959	2,004	(S)	(S)	-	-	384	1,146
31	Leather and leather products	573	297	(S)	(S)	-	-	96	252
32	Stone, clay and glass products	10,182	6,775	(S)	(S)	(S)	(S)	792	2,863
33	Primary metal industries	33,218	22,600	182	1,624	66	1,304	2,926	8,531
34	Fabricated metal products	11,753	5,005	(S)	(S)	(S)	(S)	632	2,207
35	Machinery, except electrical	7,619	3,260	(S)	(S)	-	-	643	1,883
36	Electrical machinery	6,948	2,459	(S)	(S)	-	-	603	1,707
37	Transportation equipment	4,740	1,541	(S)	(S)	(S)	(S)	324	925
38	Instruments and related products	1,655	546	(S)	(S)	-	-	78	252
39	Miscellaneous manufacturing, including ordnance	2,120	1,024	(S)	(S)	-	-	178	687
	Pittsburgh, Pa., total	203,103	143,916	3,194	18,567	3,912	51,521	3,061	10,589
20	Food and kindred products	3,799	1,869	95	588	-	-	(S)	(S)
27	Printing and publishing	474	59	-	-	-	-	-	-
32	Stone, clay and glass products	12,860	9,126	232	1,203	(S)	(S)	(S)	(S)
33	Primary metal industries	158,597	119,842	2,385	14,061	3,903	51,233	2,924	10,023
34	Fabricated metal products	7,349	3,895	33	197	7	204	(S)	(S)
35	Machinery, except electrical	5,075	2,383	53	346	(S)	(S)	24	102
36	Electrical machinery	2,793	886	(S)	(S)	-	-	(S)	(S)
37	Transportation equipment	1,430	641	(S)	(S)	(S)	(S)	(S)	(S)
38	Instruments and related products	352	122	(S)	(S)	-	-	-	-
39	Miscellaneous manufacturing, including ordnance	375	170	(S)	(S)	-	-	(S)	(S)
	Portland, Oreg.-Wash., total	29,868	13,630	-	-	(S)	(S)	(S)	(S)
20	Food and kindred products	2,590	1,586	-	-	-	-	83	276
24	Lumber and wood products	2,608	1,440	-	-	-	-	(S)	(S)
25	Furniture and fixtures	249	72	-	-	-	-	(S)	(S)
26	Paper and allied products	9,323	5,745	-	-	-	-	(S)	(S)
28	Chemicals and allied products	1,674	700	-	-	-	-	(S)	(S)
29	Petroleum and coal products	400	336	-	-	-	-	(S)	(S)
32	Stone, clay and glass products	1,678	1,352	-	-	-	-	47	170
33	Primary metal industries	8,011	952	-	-	(S)	(S)	18	73
34	Fabricated metal products	1,030	484	-	-	-	-	27	103
37	Transportation equipment	384	124	-	-	-	-	24	92
	Providence, R.I.-Mass., total	32,186	15,204	(S)	(S)	(S)	(S)	3,327	9,398
20	Food and kindred products	1,626	935	(S)	(S)	-	-	147	473
22	Textile mill products	7,933	3,372	(S)	(S)	-	-	836	2,477
23	Apparel and related products	175	62	-	-	-	-	(S)	(S)
27	Printing and publishing	154	38	(S)	(S)	-	-	(S)	(S)
30	Rubber and plastics products, n.e.c.	2,962	1,112	(S)	(S)	(S)	(S)	(S)	(S)
33	Primary metal industries	4,244	1,989	-	-	(S)	(S)	483	1,305
34	Fabricated metal products	1,880	722	(S)	(S)	-	-	182	478
35	Machinery, except electrical	1,704	646	(S)	(S)	-	-	117	309
36	Electrical machinery	659	170	-	-	-	-	47	127
38	Instruments and related products	583	208	-	-	-	-	45	132
39	Miscellaneous manufacturing, including ordnance	2,645	941	-	-	-	-	149	530
	Reading, Pa., total	13,406	6,595	199	1,532	44	880	654	2,270
20	Food and kindred products	856	403	(S)	(S)	-	-	51	182
22	Textile mill products	989	508	6	54	-	-	(S)	(S)
23	Apparel and related products	115	42	-	-	-	-	(S)	(S)
26	Paper and allied products	668	348	(S)	(S)	-	-	95	254
28	Chemicals and allied products	269	163	(S)	(S)	-	-	32	96
31	Leather and leather products	157	89	(S)	(S)	-	-	21	65
32	Stone, clay and glass products	1,545	912	(S)	(S)	-	-	(S)	(S)
33	Primary metal industries	4,351	2,363	(S)	(S)	42	833	102	381
35	Machinery, except electrical	856	277	(S)	(S)	-	-	17	56
36	Electrical machinery	1,591	586	(S)	(S)	(S)	(S)	67	210
37	Transportation equipment	700	278	(S)	(S)	-	-	(S)	(S)

See footnotes at end of table.

or More Manufacturing Employees, by Industry Groups: 1962–Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns– (See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
77,234	33,164	7,090	6,648	79,287	1,525	2	2	27	2	
6,525	3,020	1,255	425	7,085	77	-	-	-	-	20
-	-	(S)	9	112	-	-	-	-	-	21
(S)	(S)	702	168	2,842	(S)	-	-	-	-	22
130	84	629	104	2,016	-	-	-	-	-	23
(S)	(S)	207	39	621	-	-	-	-	-	25
236	119	241	471	5,212	297	-	-	-	-	26
946	604	(S)	197	2,755	(S)	-	-	-	-	27
6,626	2,754	(S)	1,212	11,851	109	-	-	-	-	28
(S)	(S)	(S)	831	7,270	(S)	-	-	-	-	29
(S)	(S)	58	322	3,955	(S)	-	-	-	-	30
-	-	(S)	13	276	-	-	-	-	-	31
4,327	2,440	777	261	3,407	-	-	-	-	-	32
26,694	10,675	466	987	10,618	595	-	-	-	-	33
2,476	1,706	602	530	6,748	(S)	-	-	-	-	34
1,035	826	(S)	316	4,359	9	-	-	-	-	35
544	383	(S)	320	4,489	52	-	-	-	-	36
225	222	301	300	3,199	-	-	-	-	-	37
(S)	(S)	(S)	71	1,109	-	-	-	-	-	38
209	169	(S)	59	1,096	-	-	-	-	-	39
133,941	56,101	7,138	5,893	59,187	1,635	1	1	2	1	
1,639	949	(S)	146	1,930	(S)	-	-	-	-	20
(S)	(S)	(S)	25	415	-	-	-	-	-	27
14,093	7,344	504	358	3,734	(S)	-	-	-	-	32
103,150	39,023	5,502	4,070	38,755	1,566	-	-	-	-	33
5,341	3,188	258	248	3,454	-	-	-	-	-	34
3,302	1,863	(S)	255	2,692	(S)	-	-	-	-	35
1,016	630	58	172	1,907	-	-	-	-	-	36
(S)	(S)	(S)	73	789	(S)	-	-	-	-	37
(S)	(S)	(S)	20	230	-	-	-	-	-	38
72	59	(S)	14	205	-	-	-	-	-	39
24,205	9,501	2,078	4,725	16,238	216	(X)	-	3	1	
1,783	875	435	95	1,004	-	-	-	-	-	20
1,275	567	662	116	1,168	(S)	-	-	-	-	24
(S)	(S)	(S)	10	177	-	-	-	-	-	25
14,090	4,934	(S)	834	3,578	(S)	-	-	-	-	26
926	385	(S)	371	974	-	-	-	-	-	28
(S)	(S)	(S)	7	64	-	-	-	-	-	29
2,791	1,027	155	286	326	-	-	-	-	-	32
1,654	736	(S)	2,827	7,059	-	-	-	-	-	33
404	277	104	38	546	-	-	-	-	-	34
(S)	(S)	(S)	25	260	-	-	-	-	-	37
3,070	2,409	3,211	1,056	16,982	59	-	7	5	9	
585	401	(S)	39	691	(S)	-	-	-	-	20
980	457	(S)	308	4,561	17	-	-	-	-	22
-	-	(S)	5	113	-	-	-	-	-	23
-	-	(S)	7	116	-	-	-	-	-	27
42	56	(S)	125	1,850	-	-	-	-	-	30
(S)	(S)	158	149	2,255	11	-	-	-	-	33
(S)	(S)	148	57	1,158	-	-	-	-	-	34
240	214	(S)	65	1,058	(S)	-	-	-	-	35
(S)	(S)	(S)	31	489	-	-	-	-	-	36
(S)	(S)	(S)	20	375	-	-	-	-	-	38
193	215	196	89	1,704	-	-	-	-	-	39
2,288	1,542	371	564	6,811	2	7	10	2	3	
120	107	(S)	27	453	-	-	-	-	-	20
(S)	(S)	(S)	28	481	-	-	-	-	-	22
(S)	(S)	(S)	4	73	-	-	-	-	-	23
-	-	(S)	26	320	-	-	-	-	-	26
(S)	(S)	(S)	6	106	-	-	-	-	-	28
-	-	(S)	3	68	-	-	-	-	-	31
-	-	(S)	55	633	-	-	-	-	-	32
1,548	989	(S)	171	1,988	(S)	-	-	-	-	33
(S)	(S)	(S)	46	579	-	-	-	-	-	35
(S)	(S)	143	118	1,005	-	-	-	-	-	36
(S)	(S)	(S)	35	422	-	-	-	-	-	37

TABLE 10. Consumption for Heat and Power, for SMSA's With 40,000

Code	Standard consolidated area, standard metropolitan statistical area, and major industry groups	Total cost of purchased fuels and electric energy	Purchased fuels							
			Total cost	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity	Cost	Quantity	Cost	Quantity	Cost
		($1,000)	($1,000)	(1,000 tons)	($1,000)	(1,000 tons)	($1,000)	(1,000 barrels)	($1,000)
		A	B	C	D	E	F	G	H
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued								
	Richmond, Va., total	13,337	7,795	536	4,389	(S)	(S)	316	1,142
21	Tobacco products	1,742	798	31	305	-	-	88	273
23	Apparel and related products	130	48	(S)	(S)	-	-	(S)	(S)
26	Paper and allied products	1,855	1,220	108	919	-	-	62	202
28	Chemicals and allied products	5,054	3,542	(S)	(S)	-	-	(S)	(S)
	Rochester, N.Y., total	21,214	11,809	603	5,359	(S)	(S)	(S)	(S)
20	Food and kindred products	3,020	1,538	48	415	-	-	105	410
22	Textile mill products	190	-	-	-	-	-	(S)	(S)
23	Apparel and related products	376	204	(S)	(S)	(S)	(S)	(S)	(S)
26	Paper and allied products	445	280	(S)	(S)	-	-	21	70
27	Printing and publishing	629	215	(S)	(S)	-	-	-	-
34	Fabricated metal products	843	378	(S)	(S)	-	-	25	121
35	Machinery, except electrical	1,620	739	(S)	(S)	-	-	(S)	(S)
36	Electrical machinery	2,356	881	(S)	(S)	-	-	50	203
38	Instruments and related products	8,135	5,422	462	4,154	(S)	(S)	(S)	(S)
39	Miscellaneous manufacturing, including ordnance	339	201	(S)	(S)	-	-	(S)	(S)
	St. Louis, Mo.-Ill., total	86,967	47,993	1,819	9,596	101	2,323	1,431	4,742
20	Food and kindred products	7,906	4,336	365	1,906	-	-	60	248
26	Paper and allied products	2,515	1,714	(S)	(S)	-	-	49	169
27	Printing and publishing	1,967	358	-	-	-	-	15	69
28	Chemicals and allied products	12,927	7,815	694	3,514	(S)	(S)	172	608
29	Petroleum and coal products	6,556	3,156	146	741	-	-	16	62
32	Stone, clay and glass products	11,805	8,129	164	962	(S)	(S)	165	515
33	Primary metal industries	22,441	13,758	62	358	96	2,298	755	2,262
34	Fabricated metal products	3,528	1,656	(S)	(S)	(S)	(S)	30	138
35	Machinery, except electrical	2,720	1,087	(S)	(S)	-	-	45	190
36	Electrical machinery	1,860	640	(S)	(S)	-	-	19	66
37	Transportation equipment	7,077	2,786	132	725	(S)	(S)	(S)	(S)
39	Miscellaneous manufacturing, including ordnance	1,374	925	(S)	(S)	-	-	(S)	(S)
	San Diego, Calif., total	6,957	1,786	-	-	-	-	(S)	(S)
20	Food and kindred products	579	228	-	-	-	-	-	-
37	Transportation equipment	3,757	632	-	-	-	-	(S)	(S)
	San Francisco-Oakland, Calif., total	73,512	37,353	(S)	(S)	(S)	(S)	2,453	5,428
20	Food and kindred products	11,229	6,968	-	-	-	-	621	1,296
23	Apparel and related products	1,219	119	-	-	-	-	(S)	(S)
24	Lumber and wood products	323	76	-	-	-	-	-	-
25	Furniture and fixtures	494	124	-	-	-	-	(S)	(S)
26	Paper and allied products	6,297	3,964	-	-	-	-	1,168	2,329
27	Printing and publishing	1,163	227	-	-	-	-	(S)	(S)
28	Chemicals and allied products	12,612	5,316	-	-	-	-	340	843
29	Petroleum and coal products	10,175	5,029	-	-	-	-	38	91
30	Rubber and plastics products, n.e.c.	898	266	-	-	-	-	-	-
32	Stone, clay and glass products	8,093	5,633	(S)	(S)	-	-	43	120
33	Primary metal industries	11,287	6,317	(S)	(S)	(S)	(S)	212	637
34	Fabricated metal products	3,724	1,464	-	-	(S)	(S)	(S)	(S)
35	Machinery, except electrical	1,442	371	-	-	-	-	(S)	(S)
36	Electrical machinery	1,697	462	-	-	-	-	(S)	(S)
37	Transportation equipment	2,042	665	-	-	-	-	(S)	(S)
39	Miscellaneous manufacturing, including ordnance	217	144	-	-	-	-	(S)	(S)
	San Jose, Calif., total	18,038	8,595	-	-	-	-	43	129
20	Food and kindred products	3,264	1,771	-	-	-	-	(S)	(S)
26	Paper and allied products	951	482	-	-	-	-	(S)	(S)
34	Fabricated metal products	341	98	-	-	-	-	-	-
35	Machinery, except electrical	1,216	241	-	-	-	-	(S)	(S)
36	Electrical machinery	1,791	585	-	-	-	-	-	-
	Seattle, Wash., total	22,505	13,148	(S)	(S)	(S)	(S)	821	2,619
20	Food and kindred products	2,075	1,101	-	-	-	-	88	405
23	Apparel and related products	148	66	(S)	(S)	-	-	(S)	(S)
24	Lumber and wood products	1,621	800	-	-	-	-	(S)	(S)
26	Paper and allied products	4,578	3,169	-	-	-	-	171	432
27	Printing and publishing	226	59	-	-	-	-	(S)	(S)
28	Chemicals and allied products	326	151	-	-	-	-	(S)	(S)
33	Primary metal industries	1,489	796	-	-	(S)	(S)	(S)	(S)
34	Fabricated metal products	1,250	631	-	-	-	-	112	350
37	Transportation equipment	4,953	2,031	(S)	(S)	-	-	(S)	(S)

See footnotes at end of table.

or More Manufacturing Employees, by Industry Groups: 1962 -Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns– (See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
3,201	1,945	(S)	464	5,542	178	1	8	10	6	
(S)	(S)	(S)	67	944	(S)	-	-	-	-	21
(S)	(S)	(S)	4	82	-	-	-	-	-	23
110	88	(S)	41	635	(S)	-	-	-	-	26
(S)	(S)	-	185	1,512	(S)	-	-	-	-	28
3,324	2,460	2,404	580	9,405	375	1	-	7	5	
400	249	464	94	1,482	-	-	-	-	-	20
(S)	(S)	(S)	7	124	-	-	-	-	-	22
(S)	(S)	119	8	172	-	-	-	-	-	23
(S)	(S)	(S)	8	165	(S)	-	-	-	-	26
(S)	(S)	(S)	23	414	-	-	-	-	-	27
246	211	(S)	25	465	-	-	-	-	-	34
419	329	138	48	881	(S)	-	-	-	-	35
(S)	(S)	(S)	78	1,475	-	-	-	-	-	36
1,023	646	574	180	2,713	(S)	-	-	-	-	38
(S)	(S)	66	7	138	-	-	-	-	-	39
68,151	28,744	2,588	3,530	38,974	841	1	1	1	3	
4,146	1,806	376	261	3,570	142	-	-	-	-	20
3,208	899	(S)	52	801	154	-	-	-	-	26
434	228	61	83	1,609	-	-	-	-	-	27
8,403	3,504	(S)	525	5,112	(S)	-	-	-	-	28
7,698	2,330	(S)	416	3,400	(S)	-	-	-	-	29
15,922	6,514	(S)	355	3,676	(S)	-	-	-	-	32
19,269	8,649	191	882	8,683	(S)	-	-	-	-	33
2,276	1,305	190	131	1,872	-	-	-	-	-	34
1,301	787	(S)	112	1,633	(S)	-	-	-	-	35
964	471	(S)	92	1,220	-	-	-	-	-	36
2,678	1,335	472	403	4,291	-	-	-	-	-	37
893	362	(S)	30	449	-	-	-	-	-	39
2,621	1,287	325	401	5,171	-	(X)	-	7	6	
370	206	(S)	21	351	-	-	-	-	-	20
1,229	550	(S)	276	3,125	-	-	-	-	-	37
72,997	28,302	2,176	3,564	36,159	470	-	1	2	2	
10,705	5,074	598	319	4,261	51	-	-	-	-	20
(S)	(S)	(S)	43	1,100	-	-	-	-	-	23
(S)	(S)	(S)	16	247	-	-	-	-	-	24
(S)	(S)	93	18	370	-	-	-	-	-	25
3,452	1,597	(S)	218	2,333	253	-	-	-	-	26
292	187	(S)	56	936	-	-	-	-	-	27
9,586	4,124	349	916	7,296	(S)	-	-	-	-	28
22,626	4,925	(S)	809	5,146	161	-	-	-	-	29
418	240	(S)	40	632	-	-	-	-	-	30
12,231	5,340	169	238	2,460	(S)	-	-	-	-	32
9,329	4,299	61	430	4,970	-	-	-	-	-	33
1,840	1,050	238	150	2,260	-	-	-	-	-	34
(S)	(S)	119	68	1,071	-	-	-	-	-	35
434	275	186	94	1,235	-	-	-	-	-	36
986	572	(S)	122	1,377	-	-	-	-	-	37
147	84	(S)	3	73	(S)	-	-	-	-	39
17,379	8,023	443	902	9,443	-	(X)	16	5	3	
3,231	1,620	(S)	106	1,493	-	-	-	-	-	20
1,017	469	(S)	46	469	-	-	-	-	-	26
(S)	(S)	54	14	243	-	-	-	-	-	34
240	134	106	82	975	-	-	-	-	-	35
937	572	(S)	119	1,206	-	-	-	-	-	36
15,013	6,058	4,207	1,368	9,357	164	-	6	3	3	
1,038	459	237	101	974	-	-	-	-	-	20
-	-	(S)	5	82	-	-	-	-	-	23
(S)	(S)	471	89	821	63	-	-	-	-	24
6,976	2,375	362	(S)	(S)	(S)	-	-	-	-	26
(S)	(S)	(S)	14	167	-	-	-	-	-	27
197	95	(S)	17	175	-	-	-	-	-	28
(S)	(S)	(S)	134	693	-	-	-	-	-	33
163	110	171	60	619	-	-	-	-	-	34
1,657	810	457	451	2,922	-	-	-	-	-	37

TABLE 10. Consumption for Heat and Power, for SMSA's With 40,000

Code	Standard consolidated area, standard metropolitan statistical area, and major industry groups	Total cost of purchased fuels and electric energy	Purchased fuels						
			Total cost	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity	Cost	Quantity	Cost	Quantity	Cost
		($1,000)	($1,000)	(1,000 tons)	($1,000)	(1,000 tons)	($1,000)	(1,000 barrels)	($1,000)
		A	B	C	D	E	F	G	H
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued								
	Springfield-Holyoke, Mass., total	18,140	8,956	185	1,797	(S)	(S)	1,230	3,827
22	Textile mill products	1,283	634	(S)	(S)	-	-	(S)	(S)
26	Paper and allied products	3,981	2,052	29	307	-	-	531	1,582
27	Printing and publishing	292	91	-	-	-	-	(S)	(S)
28	Chemicals and allied products	2,903	1,660	(S)	(S)	-	-	(S)	(S)
30	Rubber and plastics products, n.e.c.	1,525	528	(S)	(S)	-	-	(S)	(S)
34	Fabricated metal products	1,418	734	(S)	(S)	(S)	(S)	105	334
36	Electrical machinery	552	191	-	-	-	-	(S)	(S)
39	Miscellaneous manufacturing, including ordnance	975	433	(S)	(S)	-	-	98	311
	Syracuse, N.Y., total	23,057	15,078	860	7,679	(S)	(S)	384	1,362
20	Food and kindred products	2,449	1,418	45	392	-	-	52	199
22	Textile mill products	211	174	(S)	(S)	-	-	-	-
26	Paper and allied products	2,387	1,112	(S)	(S)	-	-	(S)	(S)
27	Printing and publishing	65	20	-	-	-	-	-	-
28	Chemicals and allied products	7,529	6,919	(S)	(S)	-	-	(S)	(S)
32	Stone, clay and glass products	885	661	(S)	(S)	-	-	(S)	(S)
33	Primary metal industries	2,839	1,848	(S)	(S)	(S)	(S)	(S)	(S)
34	Fabricated metal products	770	358	(S)	(S)	-	-	37	140
35	Machinery, except electrical	1,919	799	(S)	(S)	-	-	33	139
36	Electrical machinery	2,514	1,020	(S)	(S)	(S)	(S)	78	246
37	Transportation equipment	1,033	501	(S)	(S)	-	-	(S)	(S)
39	Miscellaneous manufacturing, including ordnance	128	78	(S)	(S)	(S)	(S)	(S)	(S)
	Toledo, Ohio, total	20,912	10,276	278	2,170	(S)	(S)	275	979
20	Food and kindred products	1,664	547	8	61	-	-	74	264
26	Paper and allied products	213	102	-	-	-	-	(S)	(S)
28	Chemicals and allied products	922	358	(S)	(S)	(S)	(S)	21	77
29	Petroleum and coal products	5,454	2,686	-	-	-	-	(S)	(S)
32	Stone, clay and glass products	2,517	1,725	(S)	(S)	-	-	(S)	(S)
33	Primary metal industries	2,492	1,525	(S)	(S)	(S)	(S)	(S)	(S)
34	Fabricated metal products	1,732	815	(S)	(S)	-	-	26	112
35	Machinery, except electrical	1,150	434	(S)	(S)	-	-	(S)	(S)
37	Transportation equipment	3,073	1,334	(S)	(S)	-	-	(S)	(S)
	Utica-Rome, N.Y., total	9,277	4,487	142	1,511	(S)	(S)	467	1,525
20	Food and kindred products	782	421	(S)	(S)	-	-	39	134
22	Textile mill products	335	175	(S)	(S)	-	-	(S)	(S)
25	Furniture and fixtures	160	77	-	-	-	-	(S)	(S)
26	Paper and allied products	612	324	(S)	(S)	-	-	(S)	(S)
28	Chemicals and allied products	712	593	(S)	(S)	-	-	(S)	(S)
33	Primary metal industries	2,838	1,240	(S)	(S)	-	-	158	468
34	Fabricated metal products	922	514	(S)	(S)	(S)	(S)	64	238
35	Machinery, except electrical	883	432	(S)	(S)	-	-	(S)	(S)
39	Miscellaneous manufacturing, including ordnance	614	293	(S)	(S)	-	-	(S)	(S)
	Washington, D.C.-Md.-Va., total	6,096	2,637	(S)	(S)	-	-	307	1,065
20	Food and kindred products	1,649	821	(S)	(S)	-	-	108	359
27	Printing and publishing	1,502	384	(S)	(S)	-	-	(S)	(S)
	Wichita, Kans., total	8,485	2,247	-	-	(S)	(S)	(S)	(S)
20	Food and kindred products	1,335	422	-	-	-	-	(S)	(S)
27	Printing and publishing	43	5	-	-	-	-	-	-
34	Fabricated metal products	450	135	-	-	-	-	(S)	(S)
37	Transportation equipment	3,198	612	-	-	-	-	(S)	(S)
	Wilmington, Del.-N.J., total	30,455	19,013	57	383	(S)	(S)	2,420	6,791
20	Food and kindred products	774	317	(S)	(S)	-	-	74	245
22	Textile mill products	866	609	-	-	-	-	(S)	(S)
30	Rubber and plastics products, n.e.c.	701	321	-	-	-	-	(S)	(S)
32	Stone, clay and glass products	2,077	1,291	-	-	-	-	109	309
34	Fabricated metal products	449	202	(S)	(S)	-	-	38	123

See footnotes at end of table.

or More Manufacturing Employees, by Industry Groups: 1962—Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns– (See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
1,880	1,491	(S)	626	9,184	67	5	3	5	2	
(S)	(S)	355	42	649	(S)	-	-	-	-	20
(S)	(S)	135	119	1,929	62	-	-	-	-	26
(S)	(S)	63	13	201	-	-	-	-	-	27
665	358	503	112	1,243	-	-	-	-	-	28
(S)	(S)	(S)	78	997	-	-	-	-	-	30
451	250	80	39	684	(S)	-	-	-	-	34
(S)	(S)	(S)	22	361	-	-	-	-	-	36
(S)	(S)	51	35	542	-	-	-	-	-	39
7,758	5,381	(S)	737	7,979	393	1	13	9	4	
(S)	(S)	(S)	95	1,031	(S)	-	-	-	-	20
(S)	(S)	(S)	2	37	(S)	-	-	-	-	22
(S)	(S)	(S)	126	1,275	(S)	-	-	-	-	26
(S)	(S)	(S)	3	45	-	-	-	-	-	27
(S)	(S)	(S)	70	610	(S)	-	-	-	-	28
(S)	(S)	(S)	23	224	(S)	-	-	-	-	32
1,894	1,387	93	92	991	-	-	-	-	-	33
(S)	(S)	31	24	412	-	-	-	-	-	34
353	268	(S)	102	1,120	-	-	-	-	-	35
484	355	(S)	133	1,494	-	-	-	-	-	36
(S)	(S)	(S)	55	532	-	-	-	-	-	37
(S)	(S)	-	3	50	-	-	-	-	-	39
12,189	6,150	(S)	929	10,636	94	3	7	2	4	
231	158	64	80	1,117	-	-	-	-	-	20
(S)	(S)	(S)	6	111	-	-	-	-	-	26
148	95	37	47	564	-	-	-	-	-	28
(S)	(S)	155	327	2,768	-	-	-	-	-	29
2,072	1,024	35	81	792	(S)	-	-	-	-	32
2,194	922	10	75	967	(S)	-	-	-	-	33
774	465	164	52	917	-	-	-	-	-	34
366	274	80	41	716	-	-	-	-	-	35
1,036	578	(S)	162	1,739	-	-	-	-	-	37
1,393	1,050	(S)	418	4,790	39	18	5	4	4	
148	123	(S)	23	361	-	-	-	-	-	20
(S)	(S)	(S)	12	160	-	-	-	-	-	22
-	-	(S)	6	83	(S)	-	-	-	-	25
-	-	(S)	17	288	-	-	-	-	-	26
(S)	(S)	(S)	12	119	(S)	-	-	-	-	28
622	445	(S)	154	1,598	-	-	-	-	-	33
193	141	(S)	31	408	-	-	-	-	-	34
(S)	(S)	(S)	36	451	-	-	-	-	-	35
(S)	(S)	-	33	321	(S)	-	-	-	-	39
943	740	795	234	3,459	(S)	-	11	4	5	
360	321	(S)	56	828	(S)	-	-	-	-	20
121	114	186	71	1,118	-	-	-	-	-	27
7,043	1,837	264	625	6,238	-	(X)	-	7	4	
1,222	327	(S)	70	913	-	-	-	-	-	20
(S)	(S)	-	3	38	-	-	-	-	-	27
166	99	(S)	20	315	-	-	-	-	-	34
2,155	541	(S)	213	2,586	-	-	-	-	-	37
7,028	3,606	8,193	1,131	11,442	47	1	1	1	2	
-	-	53	24	457	-	-	-	-	-	20
(S)	(S)	-	17	257	(S)	-	-	-	-	22
(S)	(S)	-	32	380	-	-	-	-	-	30
1,955	982	-	75	786	-	-	-	-	-	32
(S)	(S)	(S)	20	247	-	-	-	-	-	34

TABLE 10. Consumption for Heat and Power, for SMSA's With 40,000

Code	Standard consolidated area, standard metropolitan statistical area, and major industry groups	Total cost of purchased fuels and electric energy	Purchased fuels						
			Total cost	Bituminous coal, lignite, and anthracite		Coke and breeze		Fuel oil (distillate and residual)	
				Quantity	Cost	Quantity	Cost	Quantity	Cost
		($1,000)	($1,000)	(1,000 tons)	($1,000)	(1,000 tons)	($1,000)	(1,000 barrels)	($1,000)
		A	B	C	D	E	F	G	H
	STANDARD METROPOLITAN STATISTICAL AREAS—Continued								
	Worcester, Mass., total	13,094	6,697	73	887	5	140	1,007	3,452
20	Food and kindred products	484	244	(S)	(S)	-	-	54	239
26	Paper and allied products	303	150	(S)	(S)	-	-	30	109
27	Printing and publishing	81	21	-	-	-	-	(S)	(S)
31	Leather and leather products	221	80	(S)	(S)	-	-	(S)	(S)
33	Primary metal industries	5,193	2,888	(S)	(S)	3	77	393	1,229
34	Fabricated metal products	1,323	652	-	-	-	-	112	462
35	Machinery, except electrical	1,698	915	(S)	(S)	(S)	(S)	158	447
39	Miscellaneous manufacturing, including ordnance	174	67	(S)	(S)	-	-	(S)	(S)
	York, Pa., total	13,102	7,351	378	3,278	(S)	(S)	871	279
21	Tobacco products	78	23	(S)	(S)	-	-	(S)	(S)
22	Textile mill products	609	259	(S)	(S)	-	-	70	207
25	Furniture and fixtures	457	185	(S)	(S)	-	-	(S)	(S)
26	Paper and allied products	2,902	1,821	192	1,635	-	-	(S)	(S)
27	Printing and publishing	135	30	-	-	-	-	(S)	(S)
31	Leather and leather products	90	33	(S)	(S)	-	-	-	-
33	Primary metal industries	734	296	(S)	(S)	(S)	(S)	(S)	(S)
34	Fabricated metal products	631	259	(S)	(S)	-	-	33	112
35	Machinery, except electrical	1,584	584	(S)	(S)	(S)	(S)	99	295
36	Electrical machinery	184	65	-	-	-	-	(S)	(S)
	Youngstown, Ohio, total	56,130	38,525	691	4,175	568	7,803	2,272	8,669
26	Paper and allied products	60	26	-	-	-	-	(S)	(S)
27	Printing and publishing	85	24	-	-	-	-	(S)	(S)
30	Rubber and plastics products, n.e.c.	345	193	(S)	(S)	-	-	-	-
33	Primary metal industries	47,267	33,885	575	3,485	564	7,685	2,188	8,275
34	Fabricated metal products	1,676	834	18	103	(S)	(S)	(S)	(S)
35	Machinery, except electrical	899	382	(S)	(S)	-	-	(S)	(S)
36	Electrical machinery	917	409	(S)	(S)	-	-	-	-
37	Transportation equipment	1,367	582	(S)	(S)	(S)	(S)	(S)	(S)

Note: Detail may not add to totals because of independent rounding. Standard metropolitan statistical area totals include the estimates for all component major industry groups, regardless of whether or not separate data are shown for the individual major groups.

- Entry represents zero.

S Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); cost of fuel less than $50 thousand; quantity of electric energy less than 5 million kilowatt-hours; to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

or More Manufacturing Employees, by Industry Groups: 1962—Continued

Purchased fuels--Continued			Electric energy			Standard error of estimates (percent) for columns– (See footnote 1, table 5 on page 29)				Code
Gas (natural, manufactured, still, blast furnace, and coke oven)		Other fuels (gasoline, LPG, wood and purchased steam)	Purchased		Generated less sold					
Quantity (million cu. ft.)	Cost ($1,000)	($1,000)	Quantity (million kw.-hrs.)	Cost ($1,000)	(million kw.-hrs.)	"D"	"H"	"J"	"M"	
I	J	K	L	M	N					
1,931	1,981	237	386	6,397	56	1	6	4	4	
(S)	(S)	(S)	13	240	-	-	-	-	-	20
(S)	(S)	(S)	8	153	-	-	-	-	-	26
(S)	(S)	(S)	3	60	-	-	-	-	-	27
-	-	(S)	7	141	-	-	-	-	-	31
1,553	1,560	(S)	152	2,305	-	-	-	-	-	33
(S)	(S)	(S)	35	671	-	-	-	-	-	34
75	100	(S)	46	783	(S)	-	-	-	-	35
(S)	(S)	(S)	5	107	-	-	-	-	-	39
969	638	(S)	426	5,751	138	15	17	2	7	
(S)	(S)	(S)	3	55	-	-	-	-	-	21
(S)	(S)	(S)	26	350	-	-	-	-	-	22
(S)	(S)	-	18	272	-	-	-	-	-	25
(S)	(S)	-	90	1,081	(S)	-	-	-	-	26
(S)	(S)	(S)	8	105	-	-	-	-	-	27
(S)	(S)	(S)	3	57	-	-	-	-	-	31
(S)	(S)	(S)	32	438	-	-	-	-	-	33
123	107	(S)	25	372	-	-	-	-	-	34
173	105	61	82	1,000	-	-	-	-	-	35
(S)	(S)	(S)	8	119	-	-	-	-	-	36
31,377	16,960	918	1,811	17,605	307	1	1	1	1	
(S)	(S)	-	(S)	(S)	-	-	-	-	-	26
(S)	(S)	(S)	4	61	-	-	-	-	-	27
(S)	(S)	-	12	152	(S)	-	-	-	-	30
26,495	13,977	463	1,461	13,382	299	-	-	-	-	33
679	444	163	62	842	-	-	-	-	-	34
383	256	57	38	517	-	-	-	-	-	35
530	350	(S)	40	508	(S)	-	-	-	-	36
558	329	(S)	74	785	-	-	-	-	-	37

X Not applicable.
[1]Excludes Middlesex and Somerset Counties (New Jersey)

TABLE 11. Fuels Produced and Consumed by the Petroleum Refining (SIC 2911) and Steel Rolling and Finishing (SIC 331) Industries, by Geographic Areas: 1962 and 1958

Region, State, and year	Gas				Coke and breeze[1]	Other fuels[2]					
	Total	Blast furnace and coke oven gas	Still gas[2]			Residual oil		Petroleum coke[3]		Other fuels (acid sludge, tar, etc.)	
			Quantity	Estimated market value		Quantity	Estimated market value	Quantity[4]	Estimated market value	Quantity	Estimated market value
	(million cu. ft.)	(million cu. ft.)	(million cu. ft.)	($1,000)	(1,000 short tons)	(1,000 barrels of 42 gallons)	($1,000)	(1,000 barrels of 42 gallons)	($1,000)	(1,000 barrels of 42 gallons)	($1,000)
United States, total 1962	5,032,993	4,256,642	776,351	223,057	38,194	34,582	71,517	33,304	51,778	7,523	9,742
1958	5,515,488	4,838,518	676,970	206,495	36,221	43,147	95,836	(NA)	(NA)	17,415	25,021
Northeast, total 1962	1,494,630	1,415,637	78,993	28,903	10,452	10,581	19,948	3,247	7,790	1,313	1,293
1958	1,703,204	1,614,591	88,613	33,509	10,916	12,769	29,627	(NA)	(NA)	(D)	(D)
Pennsylvania 1962	959,752	915,952	43,800	17,068	8,540	5,955	10,531	(S)	(S)	(S)	(S)
1958	1,369,373	1,327,948	41,425	19,797	8,720	6,598	15,639	(NA)	(NA)	(D)	(D)
North Central, total 1962	1,756,352	1,582,429	173,923	65,578	17,006	13,017	31,869	9,162	19,138	2,099	3,357
1958	2,044,715	1,867,010	177,705	64,758	15,326	16,997	41,401	(NA)	(NA)	(D)	(D)
Ohio 1962	975,758	934,023	41,735	20,136	5,669	1,623	4,452	2,658	7,925	405	810
1958	(D)	710,043	(D)	(D)	4,829	2,394	5,862	(NA)	(NA)	1,639	3,457
Indiana 1962	225,062	205,305	19,757	7,943	6,512	4,418	11,446	(S)	(S)	(S)	(S)
1958	639,696	600,840	38,856	15,947	6,381	5,593	15,534	(NA)	(NA)	(D)	(D)
Illinois 1962	247,229	176,618	70,611	25,640	1,948	2,533	5,778	2,411	3,642	776	1,322
1958	349,751	282,128	67,623	23,485	1,765	3,343	7,508	(NA)	(NA)	(D)	(D)
South, total 1962	1,292,605	930,667	361,938	76,552	8,107	1,245	2,326	17,829	21,507	3,019	3,413
1958	1,281,453	1,015,280	266,173	60,087	7,254	1,803	2,994	(NA)	(NA)	7,851	9,006
Oklahoma 1962	35,143	-	35,143	6,314	-	27	52	865	676	798	474
1958	34,463	-	34,463	5,288	-	340	296	(NA)	(NA)	(D)	(D)
Texas 1962	(D)	(D)	230,894	50,070	(D)	686	988	10,999	13,824	1,718	2,156
1958	(D)	(D)	156,789	35,475	(D)	640	777	(NA)	(NA)	4,850	5,470
West, total 1962	489,406	327,909	161,497	52,024	2,629	9,739	17,374	3,066	3,343	1,092	1,679
1958	486,116	341,637	144,479	48,141	2,725	11,578	21,814	(NA)	(NA)	1,163	1,749
Montana 1962	5,441	-	5,441	1,449	-	424	657	(S)	(S)	(S)	(S)
1958	4,226	-	4,226	1,535	-	745	1,078	(NA)	(NA)	(D)	(D)
Wyoming 1962	9,247	-	9,247	1,907	-	598	1,062	383	323	(S)	(S)
1958	8,033	-	8,033	1,899	-	1,207	1,512	(NA)	(NA)	(D)	(D)
California 1962	(D)	(D)	121,246	41,245	(D)	6,467	11,193	1,067	844	84	313
1958	(D)	(D)	116,097	39,825	(D)	7,938	16,080	(NA)	(NA)	(D)	(D)

Note: Detailed figures may not add to totals because of independent rounding.
- Entry represents zero.
D Withheld to avoid disclosing figures for individual companies.
NA Not available.
S Withheld because the estimate did not meet publication standards for one or more of the following reasons: the standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

[1]Represents fuels produced and consumed by the Steel Rolling and Finishing Industries (SIC 331).
[2]Represents fuels produced and consumed by the Petroleum Refining Industry (SIC 2911).
[3]1958 data for petroleum coke are included with "Other fuels."
[4]Data were originally reported in short tons but for comparative purposes were converted to barrels at a ratio of 1 ton equal to 5 barrels.

TABLE 12. Selected Purchased Fuels Converted to Other Fuel Forms or Consumed as Raw Materials, for Selected Industries: 1962, 1958, and 1954

Type of fuel	Unit of measure	Total		Basic chemicals (SIC 281)		Carbon black (SIC 2895)		Petroleum refining (SIC 2911)		Petroleum and coal products, n.e.c. (SIC 2999)		Steel rolling and finishing (SIC 331)	
		Quantity	Delivered cost ($1,000)	Quantity	Delivered cost ($1,000)	Quantity	Delivered cost ($1,000)	Quantity	Delivered cost ($1,000)	Quantity	Delivered cost ($1,000)	Quantity	Delivered cost ($1,000)
Total cost of selected purchased fuels:													
1962	(X)	(X)	11,633,496	(X)	120,188	(X)	38,021	(X)	10,800,893	(X)	3,382	(X)	671,012
1958	(X)	(X)	[1]10,108,454	(X)	[1]62,825	(X)	34,012	(X)	9,272,501	(X)	7,927	(X)	731,189
1954	(X)	(X)	[1]8,544,347	(X)	[1]44,054	(X)	28,065	(X)	7,711,441	(X)	7,869	(X)	752,918
Bituminous coal, lignite and anthracite:[2]													
1962	1,000 S tons	71,470	676,793	308	2,399	-	-	-	-	406	3,382	70,756	671,012
1958	....do....	77,817	741,385	425	2,269	-	-	-	-	1,080	7,927	76,311	731,189
1954	....do....	85,441	761,541	182	754	-	-	-	-	1,255	7,869	84,004	752,918
Coke and breeze:													
1962	....do....	1,122	21,636	1,122	21,636	-	-	-	-	-	-	-	-
1958	....do....	1,265	21,680	1,265	21,680	-	-	-	-	-	-	-	-
1954	....do....	1,860	26,628	1,860	26,628	-	-	-	-	-	-	-	-
Crude petroleum, total:[3]													
1962	1,000 barrels of 42 gallons	3,197,662	10,437,864	-	-	-	-	3,197,662	10,437,864	-	-	-	-
1958	....do....	2,849,525	9,180,035	-	-	-	-	2,849,525	9,180,035	-	-	-	-
1954	....do....	2,499,295	7,638,890	-	-	-	-	2,499,295	7,638,890	-	-	-	-
Domestic:													
1962	....do....	2,791,337	9,202,006	-	-	-	-	2,791,337	9,202,006	-	-	-	-
1958	....do....	2,494,700	8,068,597	-	-	-	-	2,494,700	8,068,597	-	-	-	-
1954	....do....	2,288,773	6,995,841	-	-	-	-	2,288,773	6,995,841	-	-	-	-
Foreign:													
1962	....do....	406,325	1,235,858	-	-	-	-	406,325	1,235,858	-	-	-	-
1958	....do....	354,825	1,111,438	-	-	-	-	354,825	1,111,438	-	-	-	-
1954	....do....	210,522	643,049	-	-	-	-	210,522	643,049	-	-	-	-
Fuel oil:													
1962	....do....	8,252	24,170	584	1,643	7,668	22,527	-	-	-	-	-	-
1958	....do....	6,048	17,776	193	833	5,855	16,943	-	-	-	-	-	-
1954	....do....	5,960	11,003	2,178	454	3,782	10,549	-	-	-	-	-	-
Natural gas:													
1962	Million cu. ft	300,072	63,968	166,250	48,474	133,822	15,494	-	-	-	-	-	-
1958	....do....	365,237	55,112	162,502	38,043	202,735	17,069	-	-	-	-	-	-
1954	....do....	338,101	33,734	86,484	16,218	215,617	17,516	-	-	-	-	-	-
Liquefied petroleum gas:													
1962[4]	1,000 barrels of 42 gallons	188,740	409,065	27,894	46,036	-	-	160,846	363,029	-	-	-	-
1958[5]	....do....	33,021	92,466	(NA)	(NA)	-	-	33,021	92,466	-	-	-	-
1954[5]	....do....	26,567	72,551	(NA)	(NA)	-	-	26,567	72,551	-	-	-	-

Note: Detailed figures may not add to totals because of independent rounding.
- Entry represents zero.
NA Not available.
X Not applicable.
[1]Excludes cost of liquefied petroleum gas and other gases for the Basic Chemicals Industries (SIC 281).
[2]Data for Industries 2999, Petroleum and Coal Products, and 331, Steel Rolling and Finishing, represent purchased fuels converted to other fuel types.
[3]Used for conversion to other fuel types.
[4]Includes liquefied petroleum gas and refinery gas, including feed stocks.
[5]Represents liquefied petroleum gas from natural gasoline plants only.

Selected Materials Consumed

Chapter 8

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SELECTED MATERIALS CONSUMED

CONTENT OF CHAPTER

Summary data, by industries and States, are shown for those materials for which relatively complete manufacturing consumption was reported in the 1963 Census of Manufactures. About 125 selected materials consumed by manufacturing establishments in 1963 are covered. The chapter is divided into separate sections for each of the selected materials: Foods; textiles; paperboard containers and newsprint; chemicals and rubber; metals; and engines, motors, bearings, electron tubes, and semi-conductors.

Preceding the sections for individual materials are two general tables showing detail for all materials consumed. The first table (table AA) shows the percentage that the cost of materials specifically reported is of the cost of all materials consumed by an industry. Separate data for these specified purchased materials appear in Volume II, Industry Statistics. This table provides information showing the degree to which materials data, by industry, were collected and compiled in the 1963 Census of Manufactures. The second table (table BB) is an index of all materials consumed covered in the census. Since data for many of these materials consumed were compiled but not shown in this chapter because their coverage was limited, this index shows the industry containing such data in Volume II. This chapter, therefore, is a ready reference to all data on materials consumed contained in the 1963 Census of Manufactures volumes.

Some additional data on materials consumed are collected and published in the Census Bureau's Current Industrial Reports. Selected consumption information, such as quantities produced and consumed, or paper purchased for specific products were also collected in the product and special inquiry sections of the census of manufactures report form. These data generally are not to be found in this chapter but appear in the appropriate industry chapters of Volume II, Industry Statistics.

In addition to the data referred to above, other related statistics were collected in the 1963 Census of Manufactures. Table 3 of Volume II, Industry Statistics, contains information showing the cost of resales, fuels, electricity, and contract work. The statistics on detailed fuels and electric energy appear in chapter 7 and on water consumed in chapter 10 of Volume I, Summary and Subject Statistics. Data relating to materials mined by establishments classified in manufacturing, primarily those for Major Group 32, Stone, Clay and Glass Products, are included in the census of mineral industries publications.

SCOPE OF DATA IN TABLES

The data are arranged in this chapter according to broad groups of industries which represent 2-digit Standard Industrial Classification groups or combinations of such groups. The text preceding each industry grouping defines the group, notes any special problems and points out where consumption outside manufacturing is significant. In addition, definitions of the materials for which data are shown or other explanatory statements are included in these texts.

The statistics shown in this chapter include primarily "complete" coverage materials for which figures were collected in the materials inquiry section of the census of manufactures forms. "Complete" coverage materials are those for which the data obtained in the 1963 census represent about 90 percent or more of total consumption by manufacturing industries. Generally, materials data are not shown in this chapter where only two or three industries accounted for the major portion of the manufacturing consumption of the

material. However, such materials are listed in the table BB and the data are shown in the materials consumed tables of Volume II, Industry Statistics. Also, statistics are not generally shown in this chapter on materials for which census information was obtained in conjunction with the data on shipments of the material. Data on the latter material appear in the product tables (table 6) of Volume II.

ESTABLISHMENT BASIS OF DATA

With a few exceptions that are noted in the individual texts, the data shown are the total consumption by establishments classified in the specified industry rather than the total consumption in the manufacture of the products defined by the industry title. That is, all of the metal consumed by an establishment classified in the Metal Stampings Industry (3461) is included in the total for that industry. Consequently, the quantity of material consumed by this industry includes not only that used in stampings but also the quantities used in producing secondary products such as special dies, jigs, fixtures, and electrical appliances. Both Volumes I and III include and appendix entitled Industry Descriptions, which shows the proportion that shipments of the primary products of an industry are of the total shipments of the industry. Data on the proportion of shipments of primary products of each industry shipped by the primary industry are also shown in this appendix.

It should be kept in mind that the materials totals for an industry do not include the materials consumed in products primary to the industry by establishments classified in other industries, but do include consumption in secondary product output by plants in the specified industry.

COVERAGE

As noted in the introduction to the census volumes, some undercoverage exists in the statistics for most materials. This undercoverage results from the fact that very small establishments and establishments consuming negligible amounts of specific materials were not required to report these materials. While no precise measure of the effect of the undercoverage is available, it is believed that for most materials for which data are shown in this chapter the understatement is insignificant. However, for some materials which are characterized by large numbers of small consumers, the undercoverage resulting from this factor may be of some consequence, especially in the smaller cells. For example, adjustments for this undercoverage are shown for broad-woven fabrics (Textiles).

The totals for consumption of a material by all industries shown in the tables in this chapter generally do not represent complete manufacturing consumption. Industries selected for coverage generally totaled 90 percent or more of manufacturing consumption. Consequently, as much as 10 percent of the manufacturing consumption of a material may not be accounted for in the table. This factor would not affect the totals for the individual industries included in the tables. Moreover, data for material consumption in a State represent the consumption in that State only by the industries specified in the material by industry table.

DEFINITION OF MATERIALS CONSUMED

Census respondents were requested to report the amounts actually paid or payable after discounts and to include freight and direct charges incurred in acquiring the materials consumed during 1963. For materials transferred from other establishments of the same company, respondents were requested to report the nearest approximation to the commercial value of the material. Where a question arose concerning such transfer values, respondents were requested to determine the value of the material reported to

Census as a product by the producing plant and then to add only freight and other direct handling charges. Thus, the cost of materials consumed represents a "purchasers price" as contrasted to the value of the output of the material which may be termed a "producers price."

Consumption of any given item was defined as the quantity actually consumed or put into production by the establishment during the report year. Respondents were generally permitted to use purchase data where purchases closely approximated consumption. However, where inventory change was significant, respondents were requested to take this into account in determining consumption for major items.

RELATIONSHIP OF MATERIALS DATA TO OTHER STATISTICS

The materials consumed by manufacturers may have been obtained from any or all of a number of possible sources—imports as well as materials produced domestically. They may have been produced in the establishment or obtained directly from the manufacturer of the materials, from some trade channel such as wholesalers, or from the stocks of the consuming manufacturer. In some instances, previously held stocks of producers of the material and of trade channels were a significant source of individual materials consumed during the year.

The products produced from the materials consumed may have been shipped or added either to work in process or finished goods inventory as of the end of the year. Therefore, in relating material consumed data to shipment or value added data, it is necessary to take into account inventory changes in work in process and finished goods for the industry.

SUPPLEMENTARY SURVEY ON MATERIALS CONSUMED, FORM MA-131

There has been an increased demand for greater information on material consumption by manufacturers for regional and national input-output studies, particularly to facilitate the work on national accounts by the Office of Business Economics. In line with this increased demand in 1958 and again in 1963, selected large manufacturing plants in the metal fabricating and chemical industries were asked to estimate considerably greater detail than that requested on the standard census report form. The figures derived from the supplemental survey are obtained by distributing the cost of "All other" materials shown in the Census publications for each industry covered on the basis of the detail reported by the large plants. In table 7 of the Industry Chapters (Volume II), the amount of materials, parts, etc., classified in the "All other" category for the covered industries amounted to about 60 to 69 percent. The data reported in the supplemental survey provided industry estimates that reduced the "All other" to 10 to 14 percent in 1958. This additional detail was released in a separate 1958 report "Selected Materials Consumed" MC58(1)-7 (Supplement). A similar report on the 1963 survey is in preparation.

TABLE AA. Cost of Materials, Parts, Supplies, and Containers Consumed by Each Industry: 1963

The table below shows totals for the materials consumed in each industry as reported on item 17, "Selected Materials Consumed During 1963," on the 1963 Census of Manufactures reporting form. Industries for which no specific materials were reported are not shown. See table 7A of Volume II, Industry Statistics, for the specific materials consumed in each industry.

"Total cost of materials" is the cost of all materials consumed by the industry, including miscellaneous materials and materials not reported separately. It represents the amounts paid or payable for materials, parts, containers, and supplies consumed or put into production during the year after discounts and including freight charges and other direct charges incurred by the establishment in acquiring these materials. It excludes the cost of items bought and resold in the same condition, cost of contract work, fuels, and electric energy.

"Cost of specified materials" is the total of only those specific materials reported by each industry on item 17. In part, this figure and particularly the percentage represents some degree of understatement regarding the amount of detail available for materials consumed. For example, the figures do not reflect the information on materials collected on other sections of the report form, such as in the product or special inquiry sections.

The last column in the table shows the percentage that the cost of specified materials is of the total cost of materials consumed.

See the Introduction and the specific industry chapters in Volume II for additional information about materials consumed.

Code	Industry	Total cost of materials	Cost of specified materials	Percentage col. b ÷ col. a
2011	Meat slaughtering plants	10,007,396	9,194,733	92
2013	Meat processing plants	1,296,616	1,013,659	78
2015	Poultry dressing plants	1,743,768	1,404,908	85
2021	Creamery butter	784,041	677,515	86
2022	Natural and process cheese	932,358	756,861	81
2023	Condensed and evaporated milk	657,419	476,754	73
2024	Ice cream and frozen desserts	538,897	309,700	57
2026	Fluid milk	4,232,137	3,232,587	76
2031	Canned and cured seafoods	228,843	193,336	84
2032	Canned specialties	566,792	451,490	80
2033	Canned fruits and vegetables	1,599,256	1,282,442	80
2034	Dehydrated foods products	200,256	153,288	77
2035	Pickles, sauces, salad dressings	402,825	248,353	62
2036	Fresh or frozen packaged fish	242,367	191,448	79
2037	Frozen fruits and vegetables	917,718	630,357	69
2041	Flour mills	1,690,378	1,541,148	91
2042	Prepared animal feeds	2,615,561	814,459	31
2043	Cereal preparations	245,694	150,798	61
2044	Rice milling	336,443	314,151	93
2045	Blended and prepared flour	238,673	144,760	61
2046	Wet corn milling	311,304	233,081	75
2051	Bread and related products	1,672,986	1,209,395	72
2052	Biscuit, crackers, and cookies	475,264	366,706	77
2061	Raw cane sugar	243,405	231,216	95
2062	Cane sugar refining	1,022,153	986,319	96
2063	Beet sugar	342,518	301,597	88
2071	Confectionery products	765,733	508,300	66
2072	Chocolate and cocoa products	297,980	227,906	76
2073	Chewing gum	86,308	24,571	28
2082	Malt liquors	994,599	202,584	20
2083	Malt	119,800	116,022	97
2084	Wines and brandy	217,612	105,169	48
2085	Distilled liquor, except brandy	406,756	358,493	88
2086	Bottled and canned soft drinks	872,975	473,251	54
2087	Flavorings	305,653	125,501	41
2091	Cottonseed oil mills	401,656	366,679	91
2092	Soybean oil mills	1,232,685	1,138,468	92
2093	Vegetable oil mills, n.e.c.	158,529	85,597	54
2095	Roasted coffee	1,177,814	953,488	81
2096	Shortening and cooking oils	980,939	776,096	79
2098	Macaroni and spaghetti	115,901	69,572	60
2099	Food preparations, n.e.c.	838,475	661,134	79
2111	Cigarettes	1,330,478	1,151,175	87
2121	Cigars	162,984	155,215	95
2131	Chewing and smoking tobacco	62,640	51,219	82
2141	Tobacco stemming and redrying	1,090,056	1,075,039	99
2211	Weaving mills, cotton	1,686,519	1,667,456	99
2221	Weaving mills, synthetics	987,130	965,623	98
2231	Weaving, finishing mills, wool	580,364	569,202	98
2251	Women's hosiery, except socks	276,039	225,129	82
2252	Hosiery, n.e.c.	229,949	176,184	77
2253	Knit outerwear mills	440,992	292,425	66
2254	Knit underwear mills	163,589	110,126	67
2256	Knit fabric mills	507,473	446,516	88
2259	Knitting mills, n.e.c.	18,369	12,083	66
2261	Finishing plants, cotton	494,653	402,463	81
2262	Finishing plants, synthetic	133,493	88,789	67
2269	Finishing plants, n.e.c.	126,627	93,623	74
2281	Yarn mills, except wool	679,640	616,729	91
2282	Throwing and winding mills	204,520	182,322	89
2283	Wool yarn mills	290,486	268,501	92
2284	Thread mills	112,417	94,178	84
2291	Felt goods, n.e.c.	64,981	27,952	43
2292	Lace goods	19,642	12,416	63
2293	Padding and upholstery filling	80,684	48,125	60
2294	Processed textile waste	52,623	45,285	86
2295	Coated fabric, not rubberized	238,476	137,917	58
2296	Tire cord and fabric	298,632	258,240	86
2297	Scouring and combing plants	70,688	51,122	72
2298	Cordage and twine	82,829	24,079	29
2311	Men's and boys' suits and coats	482,261	406,439	84
2321	Men's dress shirts and nightwear	512,418	438,202	86
2322	Men's and boys' underwear	69,756	55,872	80
2323	Men's and boys' neckwear	51,969	30,973	60
2327	Separate trousers	325,870	266,847	82
2328	Work clothing	397,077	326,182	82
2329	Men's and boys' clothing, n.e.c.	178,433	137,888	77
2331	Blouses	204,799	154,355	75
2335	Dresses	801,419	567,285	71
2337	Women's suits, coats, and skirts	634,463	444,722	70
2339	Women's outerwear, n.e.c.	310,209	220,315	71
2341	Women's and children's underwear	441,360	294,193	67
2342	Corsets and allied garments	218,295	140,227	64
2361	Children's dresses and blouses	155,952	109,385	70
2363	Children's coats and suits	63,552	45,076	71
2369	Children's outerwear, n.e.c.	173,962	132,402	76
2381	Fabric dress and work gloves	63,988	43,795	68
2384	Robes and dressing gowns	80,188	58,071	72
2385	Waterproof outergarments	89,695	58,625	65
2386	Leather and sheeplined clothing	27,978	22,019	79
2387	Apparel belts	39,284	15,250	39
2389	Apparel, n.e.c.	43,768	21,610	49
2391	Curtains and draperies	161,746	114,592	71
2392	Housefurnishings, n.e.c.	395,213	219,599	56
2393	Textile bags	123,616	90,740	73
2394	Canvas products	83,661	39,061	47
2399	Textile products, n.e.c.	176,602	60,849	34
2411	Logging camps and contractors	396,190	171,981	43
2421	Sawmills and planing mills	1,430,122	1,104,420	77
2426	Hardwood dimension and flooring	170,867	124,887	73
2429	Special product sawmills, n.e.c.	47,165	23,864	51
2431	Millwork plants	643,910	365,945	57
2432	Veneer and plywood plants	730,631	638,344	87
2433	Prefabricated wood products	212,354	111,932	53
2441	Nailed wooden boxes and shook	97,649	57,303	59
2442	Wirebound boxes and crates	53,795	36,131	67
2443	Veneer and plywood containers	10,407	4,485	43
2491	Wood preserving	143,628	119,739	83
2499	Wood products, n.e.c.	326,084	120,787	37
2511	Wood furniture, not upholstered	799,183	524,805	66
2512	Wood furniture, upholstered	457,571	330,153	72
2514	Metal household furniture	266,258	163,740	61
2515	Mattresses and bedsprings	333,931	212,619	64
2521	Wood office furniture	40,440	23,342	58
2522	Metal office furniture	136,020	94,201	69
2531	Public building furniture	118,997	65,565	55
2541	Wood partitions and fixtures	154,477	79,178	51
2542	Metal partitions and fixtures	152,181	99,236	65
2591	Venetian blinds and shades	82,915	27,750	33
2599	Furniture and fixtures, n.e.c.	48,581	20,822	43
2611	Pulp mills	278,706	197,890	71
2621	Paper mills, except building	1,750,014	1,250,008	71
2631	Paperboard mills	988,392	679,587	69
2641	Paper coating and glazing	677,435	486,621	72
2642	Envelopes	154,813	125,247	81
2643	Bags, except textile bags	635,811	525,087	83
2644	Wallpaper	13,746	8,210	60
2645	Die cut paper and board	186,997	143,313	77
2646	Pressed and molded pulp goods	34,007	13,797	41
2647	Sanitary paper products	599,957	467,657	78
2649	Converted paper products, n.e.c.	253,285	160,269	63
2651	Folding paperboard boxes	580,030	481,538	83

See footnotes at end of table.

TABLE AA. Cost of Materials, Parts, Supplies, and Containers Consumed by Each Industry: 1963–Continued

Code	Industry	Total cost of materials	Cost of specified materials	Percentage col. b ÷ col. a
2652	Set-up paperboard boxes	90,678	62,517	69
2653	Corrugated shipping containers	1,323,686	1,186,759	90
2654	Sanitary food containers	470,953	405,414	86
2655	Fiber cans, tubes, drums, etc	128,894	70,107	54
2711	Newspapers	1,162,170	1,035,157	89
2721	Periodicals	358,811	221,971	62
2731	Books, publishing and printing	196,819	125,898	64
2732	Book printing	155,576	79,451	51
2741	Miscellaneous publishing	53,599	17,853	33
2751	Printing, except lithographic (letter press, gravure, and screen)	912,358	504,054	55
2752	Printing, lithographic	673,715	408,046	61
2753	Engraving and plate printing	25,420	10,060	40
2761	Manifold business forms	232,889	194,493	84
2771	Greeting card manufacturing	89,399	37,834	42
2782	Blankbooks; looseleaf binders	87,572	49,318	56
2789	Bookbinding and related work	46,402	15,540	33
2812	Alkalies and chlorine	159,280	12,220	08
2814	Cyclic (coal tar) crudes	60,819	29,867	49
2815	Intermediate coal tar products	483,406	147,477	31
2818	Organic chemicals, n.e.c	1,764,876	570,434	32
2819	Inorganic chemicals, n.e.c	1,141,635	552,506	48
2821	Plastics materials and resins	1,259,573	573,413	46
2822	Synthetic rubber	402,858	310,111	77
2823	Cellulosic man-made fibers	295,291	143,133	48
2824	Organic fibers, noncellulosic	463,102	12,417	3
2831	Biological products	31,818	5,697	18
2833	Medicinals and botanicals	134,710	15,976	12
2834	Pharmaceutical preparations	636,450	114,913	18
2841	Soap and other detergents	883,836	568,768	64
2842	Polishes and sanitation goods	280,944	89,549	32
2844	Toilet preparations	504,739	256,161	51
2851	Paints and allied products	1,233,360	766,546	62
2871	Fertilizers	491,127	408,981	83
2872	Fertilizers, mixing only	355,243	250,419	70
2892	Explosives	100,656	13,415	13
2895	Carbon black	49,276	39,696	81
2911	Petroleum refining	12,383,982	11,108,617	98
2951	Paving mixtures and blocks	223,461	95,563	43
2952	Asphalt felts and coatings	285,050	214,831	75
2992	Lubricating oils and greases	250,535	69,897	28
3011	Tires and inner tubes	1,324,820	1,119,928	85
3021	Rubber footwear	113,771	58,502	51
3031	Reclaimed rubber	1,025,257	574,490	56
3069	Rubber products, n.e.c			
3079	Plastics products, n.e.c	1,380,471	796,423	58
3111	Leather tanning and finishing	397,655	361,722	91
3121	Industrial leather belting	15,591	5,921	38
3131	Footwear cut stock	129,045	55,350	43
3141	Shoes, except rubber	983,404	660,467	67
3142	House slippers	54,695	26,542	49
3151	Leather gloves	34,295	25,165	73
3161	Luggage	93,531	37,734	40
3171	Handbags and purses	123,542	61,007	49
3172	Small leather goods	62,449	23,403	37
3199	Leather goods, n.e.c	29,804	10,458	35
3211	Flat glass	146,029	62,717	43
3221	Glass containers	315,938	178,347	56
3229	Pressed and blown glass, n.e.c	130,544	40,384	31
3231	Products of purchased glass	281,018	179,395	64
3241	Cement, hydraulic	195,819	25,212	13
3261	Vitreous plumbing fixtures	40,928	11,581	28
3263	Fine earthenware food utensils	14,584	3,005	21
3264	Porcelain electrical supplies	33,845	6,966	21
3269	Pottery products, n.e.c	24,397	4,875	20
3271	Concrete block and brick	197,172	125,882	64
3272	Other concrete products	337,262	171,894	51
3273	Ready mixed concrete	1,155,520	785,998	68
3274	Lime	37,149	4,254	11
3275	Gypsum products	133,830	24,821	19
3281	Cut stone and stone products	70,559	25,133	36
3292	Asbestos products	212,128	113,762	54
3293	Gaskets and insulations	97,292	10,639	11
3312	Blast furnaces and steel mills	7,983,724	5,556,210	70
3313	Electrometallurgical products	175,848	27,906	16
3315	Steel wire drawing, etc	313,528	229,381	73
3321	Gray iron foundries	666,606	499,901	75
3322	Malleable iron foundries	92,782	42,120	45
3323	Steel foundries	235,267	69,559	30
3331	Primary copper	928,334	805,515	87
3332	Primary lead	222,289	131,682	59
3333	Primary zinc	151,884	134,952	89
3334	Primary aluminum	434,328	293,741	68
3341	Secondary nonferrous metals	676,580	514,677	76
3351	Copper rolling and drawing	1,120,641	993,017	81
3352	Aluminum rolling and drawing	1,414,580	1,183,866	84
3356	Rolling and drawing, n.e.c	368,372	135,501	37
3357	Nonferrous wire drawing, etc	1,405,424	1,033,007	74
3361	Aluminum castings	262,003	186,315	71
3362	Brass, bronze, copper castings	132,061	85,274	65
3369	Nonferrous castings, n.e.c	104,619	52,253	50
3391	Iron and steel forgings	408,283	324,597	80
3392	Nonferrous forgings	85,270	44,144	52
3411	Metal cans	1,212,470	1,049,830	87
3421	Cutlery	64,462	17,532	27
3423	Hand and edge tools	162,649	68,365	42
3425	Hand saws and saw blades	32,665	18,682	57
3429	Hardware, n.e.c	657,506	319,320	49
3431	Metal plumbing fixtures	77,354	31,354	41
3432	Plumbing fittings, brass goods	156,923	75,367	48
3433	Heating equipment, except electric	470,096	149,141	32
3441	Fabricated structural steel	947,245	702,608	74
3442	Metal doors, sash, and trim	628,166	287,320	46
3443	Boiler shop products	755,278	464,497	62
3444	Sheet metal work	562,429	333,570	59
3446	Architectural metal work	99,865	51,886	52
3449	Miscellaneous metal work, n.e.c	360,361	267,666	74
3451	Screw machine products	183,688	116,371	63
3452	Bolts, nuts, rivets, and washers	433,638	305,612	70
3461	Metal stampings	1,171,137	761,933	65
3481	Fabricated wire products, n.e.c	433,668	274,928	63
3491	Metal barrels, drums, and pails	176,034	121,623	69
3493	Steel springs	82,268	61,727	75
3494	Valves and pipe fittings	569,770	314,908	55
3496	Collapsible tubes	19,336	5,027	25
3497	Metal foil and leaf	114,843	49,511	43
3498	Fabricated pipe and fittings	141,679	88,407	63
3499	Fabricated metal products, n.e.c	235,976	103,349	44
3511	Steam engines and turbines	219,107	123,602	56
3519	Internal combustion engines	694,115	169,309	24
3522	Farm machinery and equipment	1,426,108	659,973	46
3531	Construction machinery	1,284,321	733,381	57
3532	Mining machinery and equipment	166,460	70,972	43
3533	Oil field machinery	216,441	102,814	48
3534	Elevators and moving stairways	108,235	34,179	32
3535	Conveyors	173,961	65,754	38
3536	Hoists, cranes, and monorails	101,430	58,184	57
3537	Industrial trucks and tractors	192,548	68,159	35
3541	Metal-cutting machine tools	334,002	111,836	33
3542	Metal-forming machine tools	144,149	57,275	40
3544	Special dies and tools	281,516	105,934	38
3545	Machine tool accessories	188,599	61,455	33
3548	Metalworking machinery, n.e.c	279,508	99,423	36
3551	Food products machinery	204,807	72,290	35
3552	Textile machinery	209,812	71,781	34
3553	Woodworking machinery	94,429	33,537	36
3554	Paper industries machinery	165,618	50,925	31
3555	Printing trades machinery	123,152	38,090	31
3559	Special industry machines, n.e.c	344,435	117,038	34
3561	Pumps and compressors	570,414	225,216	39
3562	Ball and roller bearings	343,713	207,161	60
3564	Blowers and fans	114,795	50,048	44
3565	Industrial patterns	23,512	3,361	14
3566	Power transmission equipment	290,185	156,276	54
3567	Industrial furnaces and ovens	124,390	30,601	25
3569	General industry machines, n.e.c	222,504	58,253	26
3571	Computing and related machines	846,766	148,540	18
3572	Typewriters	73,871	18,618	25
3576	Scales and balances	32,049	8,816	28
3579	Office machines, n.e.c	77,836	17,996	23

See footnotes at end of table.

TABLE AA. Cost of Materials, Parts, Supplies, and Containers Consumed by Each Industry: 1963–Continued

Code	Industry	Total cost of materials	Cost of specified materials	Percentage col. b ÷ col. a
3581	Automatic vending machines	108,790	21,602	20
3582	Commercial laundry equipment	57,531	18,835	33
3585	Refrigeration machinery	958,092	381,212	40
3586	Measuring and dispensing pumps	59,780	17,116	29
3589	Service industry machines, n.e.c.	150,797	37,977	25
3599	Miscellaneous machinery	528,661	156,805	30
3611	Electric measuring instruments	217,126	40,502	19
3612	Transformers	324,538	175,420	54
3613	Switchgear and switchboards	400,444	187,365	47
3621	Motors and generators	662,068	363,739	55
3622	Industrial controls	195,509	76,283	39
3623	Electric welding apparatus	150,549	75,909	50
3624	Carbon and graphite products	71,382	857	01
3629	Electric industrial goods, n.e.c.	92,996	18,564	20
3631	Household cooking equipment	235,937	61,351	26
3632	Household refrigerators	648,625	230,095	35
3633	Household laundry equipment	396,067	156,899	40
3634	Electric housewares and fans	335,544	89,285	27
3635	Household vacuum cleaners	59,439	14,278	24
3636	Sewing machines	24,204	4,748	20
3639	Household appliances, n.e.c.	215,869	81,427	38
3641	Electric lamps	183,990	16,927	09
3642	Lighting fixtures	538,801	107,682	20
3643	Current carrying devices	225,474	71,379	32
3644	Noncurrent carrying devices	203,364	113,969	56
3651	Radio and T.V. receiving sets	1,335,000	338,221	25
3661	Telephone; telegraph apparatus	655,050	155,098	24
3662	Radio, T.V. communications equipment	2,468,669	301,364	12
3671	Electron tubes, receiving type	60,103	43,396	72
3672	Cathode ray picture tubes	138,318	69,730	50
3673	Electron tubes, transmitting	73,946	35,208	48
3674	Semiconductors	183,301	42,669	23
3679	Electronic components, n.e.c.	754,690	184,244	24
3691	Storage batteries	264,197	104,131	39
3692	Primary batteries, dry and wet	69,928	9,077	13
3694	Engine electrical equipment	356,386	123,662	35
3699	Electrical products, n.e.c.	83,253	20,544	25
3713	Truck and bus bodies	224,413	59,038	26
3715	Truck trailers	298,517	99,129	33
3717	Motor vehicles and parts	23,517,962	3,965,121	17
3721	Aircraft	2,458,694	180,471	07
3722	Aircraft engines and parts	1,386,229	268,344	19
3723	Aircraft propellers and parts	64,501	4,924	08
3729	Aircraft equipment, n.e.c.	996,750	214,910	22
3731	Ship building and repairing	612,467	166,051	27
3732	Boat building and repairing	167,519	58,835	35
3741	Locomotives and parts	233,289	18,871	08
3742	Railroad and street cars	575,511	297,157	52
3751	Motorcycles, bicycles, and parts	102,722	19,410	19
3791	Trailer coaches	471,898	141,628	30
3799	Transportation equipment, n.e.c.	94,750	22,490	24
3811	Scientific instruments	166,172	24,844	15
3821	Mechanical measuring devices	358,337	78,503	22
3822	Automatic temperature controls	141,812	42,901	30
3831	Optical instruments and lenses	53,059	3,462	07
3842	Surgical appliances and supplies	175,762	9,424	05
3861	Photographic equipment	482,707	55,135	11
3871	Watches and clocks	207,170	74,807	36
3914	Silverware and plated ware	97,453	56,151	58
3941	Games and toys	325,133	99,326	31
3942	Dolls	79,382	19,906	25
3943	Children's vehicles	38,987	10,028	26
3949	Sporting and athletic goods	293,360	70,139	24
3963	Buttons	33,301	997	03
3964	Needles, pins, and fasteners	131,109	29,407	22
3982	Hard surface floor coverings	75,979	43,557	57
3999	Miscellaneous products, n.e.c.	186,739	18,032	10
1925	Complete guided missiles	946,198	27,526	03
1929	Ammunition, n.e.c.	180,295	63,724	35
1931	Tanks and tank components	255,930	60,993	24
1941	Sighting and fire control equipment	-	-	-
1951	Small arms, 30 mm, and under	39,661	9,248	23
1961	Small arms ammunition	79,734	2,415	03
1911	Guns, howitzers, and mortars	102,977	9,188	09
1999	Ordnance and accessories, n.e.c.			

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

TABLE BB. Materials Consumed Coverage Index

Data for the selected materials shown in each section of this chapter are confined to materials for which complete coverage was obtained. In addition to data shown in this chapter, information for a large number of other materials are shown in Volume II which presents separate chapters for individual industries. Data on the use of these other materials were obtained where they were an important part of total material cost of the given industry. The table below contains a list of all materials for which data were collected on either a "complete coverage" or "partial coverage" basis on the material inquiry section of the 1963 Census of Manufactures report forms.

All materials in the census of manufactures are assigned a 6-digit code, based on the following example. The first four digits of the food and agricultural materials indicate the agricultural industry of which the material is a basic product as specified in the 1957 edition of the Bureau of the Budget's Standard Industrial Classification Manual. Materials primarily produced in the manufacturing and mineral industries have a meaningful fifth digit which indicates the primary product class in which the material is manufactured or mined. In cases where the material represents a broad class of materials, the fifth digit will be "0." All 3- and 4-digit industry codes in the last column are the same as those specified in the Standard Industrial Classification Manual.

Consumption data collected in the product and special inquiry sections of the census report forms are not shown in the selected materials tables of this chapter nor are they reflected in the list below. These are generally products produced and consumed at the same establishment or receipts and/or purchases of similar or allied items produced in the reporting establishment. Such statistics are included in table 6 (product table) of Volume II.

The codes shown under "Consuming industries" indicate the industries for which data on the given material was published. Wherever a 3-digit industry group appears, all 4-digit industries within the group are included.

Material code	Material	Consuming industries (SIC code)
010012	Nuts, in shell, including peanuts	2071, 2072
010014	All other fibers (silk, jute, reused wool, waste, etc.)	2211, 2221, 2231, 2281, 2283, 2284, 2296
011201	Raw cotton	
011202	Raw cotton (net weight)	2293
	Grains:	
011301	Corn, including sorghum grain	2044, 2046
011341	Rice, rough	
011311	Barley	2041, 2042, 2043, 2045, 2082, 2083
011321	Corn	2041, 2042, 2043, 2045, 2085
011322	Corn (purchased as grain)	2082
011331	Oats	2041, 2042, 2043, 2045
011351	Rye	2085
011361	Sorghum grain	2041, 2042, 2043, 2045
011371	Wheat	
011381	Soybeans	2091, 2092, 2093, 2096
011211	Cottonseed	
011911	Flaxseed	
011921	Peanuts, in shell	2099
011951	Irish potatoes	2032, 2033, 2035, 2037
011971	Sugar beets	2063
011981	Sugar cane	2061, 2062
012011	Fresh fruit	2034, 2099
012211	Apples	2032
012221	Apricots	
012231	Oranges	
012261	Peaches	
012271	Pears	
012273	Pineapples	
012281	Strawberries	
012291	Other fresh fruits	2032, 2033, 2035, 2037
012241	Grapes	2032, 2033, 2035, 2037, 2084
012283	Cocoa beans	2071, 2072
012285	Green coffee	2095, 2099
012287	Copra	2091, 2092, 2093, 2096
012301	Fresh vegetables	2034, 2095, 2099
012311	Green peas	2032, 2033, 2035, 2037
012321	Snap or wax beans	
012331	Sweet corn	
012341	Tomatoes	
012351	Cucumbers	
012391	Other fresh vegetables	
	Poultry killed:	
013311	Young chickens, including commercial broilers	2015
013321	Hens (or fowl) and other chickens	
013331	Turkeys	
013391	Other poultry and small game, including ducks, geese, rabbits, etc	
013325	Shell eggs	
	Animals slaughtered:	
013913	Cattle, number of head	2011, 2013
013921	Calves, live weight	
013923	Calves, number of head	
013931	Hogs, live weight	
013933	Hogs, number of head	
013941	Sheep and lamb, live weight	
013943	Sheep and lamb, number of head	

Material code	Material	Consuming industries (SIC code)
081111	Stumpage cut in the manufacture of logs, lumber, veneer, plywood or other wood products, cost	2411, 242, 2432
086111	Natural rubber	3357
086113	Natural rubber, latex (dry solids content)	3011, 3021, 3031, 3069
086115	Natural rubber, dry	
091211	Finfish, round	2031, 2036
091311	Shellfish	
	Ores and other metal-bearing materials treated:	
101101	Iron ore, including manganiferrous	3312
102100	Copper ores, concentrates and precipitates	3331, 3332, 3333
103200	Lead ores and concentrates	
103300	Zinc ores and concentrates	
105101	Bauxite	2819
106220	Manganese ore, including ferruginous (containing 10% or more manganese)	3313
121011	Bituminous coal and lignite	2818, 2819
121120	Coal used in the production of coke	3312
	Crude petroleum, excluding topped petroleum:	
131201	Domestic	2911
131202	Foreign	
132121	Cycle condensate	
132122	Natural gasoline, mixed and crude, including drip gasoline	
131302	Natural gas	2812, 2815, 2818, 2819, 2895
132123	Liquified petroleum gases, including feed stocks	
141101	Rough stone used to produce dressed stone	3281
142101	Broken stone received for crushing, screening or washing	
144201	Common sand and gravel	3271, 3272, 3273
144301	Glass sand, all types	3211, 3221, 3229
145501	Kaolin and ball clay	2611, 2621, 2631, 2661
147401	Muriate of potash, including all grades converted to 60-62% K_2O basis	2871, 2872
147402	Other potash bearing materials, (potassium sulfate, etc.)	
200011	Organic ammoniates (cottonseed cake and meal, meat meal and tankage, tobacco stems, etc.)	
147501	Phosphate rock	2815, 2819, 2871, 2872
147701	Sulfur	2611, 2621, 2631, 2661, 2815, 2818, 2819, 2871
147901	Pyrites	2819
149901	Asbestos, crude, including fiber	2611, 2621, 2631, 2661, 3292, 3293, 3982
201013	Fresh and prepared meats, other than poultry	2032, 2033, 2035, 2037
	Fresh and frozen meats, including variety meats:	
201111	Beef	2011, 2013
201121	Veal	
201131	Lamb	
201141	Pork	
201101	Meat materials for sausage and canning, not separable by species	

TABLE BB. **Materials Consumed Coverage Index**—Continued

Material code	Material	Consuming industries (SIC code)
	Fresh and frozen meats, including variety meats--Continued	
201161	Processed pork-cured, smoked, etc.	2011, 2013
201102	Other purchased meat materials (cured beef, cured lamb, goat meat, etc.)	2011, 2013
201391	Animal casings	2011, 2013
201191	Hides, skins, and pelts	2011, 2013, 3111
201501	Poultry, dressed, purchased as such	2015, 2032, 2033, 2035, 2037
201561	Eggs, frozen and liquid	2051, 2052
204554	Prepared flour mixes	2051, 2052
	Milk and milk derivatives:	
202101	Butter	2021, 2022, 2023, 2026, 2034
202210	Natural cheese, other than cottage cheese	2021, 2022, 2023, 2026, 2034
202301	Condensed and evaporated milk	2021, 2022, 2023, 2026, 2034
202401	Ice cream mix, sherbert mix, and ice-milk mix	2021, 2022, 2023, 2026, 2034
202610	Whole milk	2021, 2022, 2023, 2026, 2034
202611	Butterfat content of whole milk	2021, 2022, 2023, 2026, 2034
202612	Fluid skim milk	2021, 2022, 2023, 2026, 2034
202613	Cream	2021, 2022, 2023, 2026, 2034
202614	Butterfat content of cream	2021, 2022, 2023, 2026, 2034
202311	Dried milk, including nonfat dry milk	2011, 2013, 202, 205
203411	Dried fruits	2032, 2033, 2034, 2035, 2037
203413	Dried beans	2032, 2033, 2035, 2037
204101	Wheat flour	2032, 2033, 2035, 2037, 2041, 2042, 2043, 2045, 205, 2099
204115	Semolina and durum flour	2098
204119	Farina and other wheat flour	2098
204601	Corn starch, purchased	2044, 2046
204602	Corn syrup and corn starch	2099
204609	Starch	2611, 2621, 2631, 2661
206011	Sugar (cane and beet) in terms of sugar solids	202, 2032, 2033, 2034, 2035, 2037, 2041, 2042, 2099, 2043, 2045, 205, 207, 2082, 2086, 2087
206101	Raw cane sugar (convert to 96° basis)	2061, 2062
207163	Nutmeats, including peanuts (purchased as such)	2071, 2072
207211	Chocolate coatings, including cocoa powder composition coatings	2071, 2072
208301	Malt	2082, 2083, 2085
208401	Wines purchased for blending	2084
	Materials used in bottling:	
208511	Spirits	2085
208513	Aged whiskey	2085
208731	Flavoring sirups	2086
208701	Flavors other than sirups, including beverage bases	2086
209001	Animal and vegetable oils	2911, 2992
	Vegetable oils:	
209010	Crude and processed	3292
209011	For industrial purposes	2841, 2842
209111	Cottonseed oil, crude	2091, 2092, 2093, 2096
209121	Cottonseed oil, refined	2091, 2092, 2093, 2096
209211	Soybean oil, crude	2091, 2092, 2093, 2096
209212	Soybean oil, refined	2091, 2092, 2093, 2096
209131	Cotton linters (net weight)	2293, 2512, 2515, 2611, 2621, 2631, 2661, 3842
209311	Linseed oil (crude or processed)	2851
209016	All other vegetable oils	2851
201151	Lard	205, 2091, 2092, 2093, 2096
201104	Tallow and stearin, edible	2091, 2092, 2093, 2096
209411	Grease and inedible tallow	2841, 2842
209601	Margarine and puffpaste	205
209611	Shortening	205
209014	Other fats and oils (cooking oils, butter, etc.)	205
209612	All types (purchased as such)	2031, 2032, 2033, 2035, 2036, 2037, 2099
209613	For use in flour and prepared flour mixes (purchased as such)	2041, 2042, 2043, 2045

Material code	Material	Consuming industries (SIC code)
	Tobacco:	
	Unstemmed leaf tobacco, including green tobacco:	
011931	Not packed	2111, 2121, 2131, 2141
214111	Redried and packed	2111, 2121, 2131, 2141
214121	Stemmed leaf tobacco	2111, 2121, 2131, 2141
214129	Other tobacco materials	2111, 2121, 2131, 2141
220119	Uncoated broad-woven fabrics, (piece goods) other than cotton	3713, 3717
	Broad-woven fabrics:	
220123	Cotton, wool, man-made fiber fabrics, etc	2381, 3151, 3721, 3729, 394
220124	Suiting and coating piece goods, excluding lining	2311, 2321, 2322, 2327, 2328, 2329, 233, 2341, 236
220125	All other piece goods, including linings	2311, 2321, 2322, 2327, 2328, 2329, 233, 2341, 236
220126	Piece goods, including linings	2323, 2384, 2385, 2386, 2387, 2389
	Broad-woven fabrics (piece goods), except coated, impregnated or laminated fabrics:	
221101	Cotton	2391, 2392, 2393, 2394, 2399, 3161, 317
222101	Rayon and acetate	2391, 2392, 2394, 3161, 317
222161	Nylon	2391, 2392, 2393, 2394, 2399
220127	Other broad-woven fabrics	2391, 2392, 2393, 2394, 2399
220129	Woven fabrics (over 12" wide), other than coated, impregnated or laminated plastics on cloth backing, including artificial leather	314
220149	Other broad-woven fabrics (piece goods)	3842
220211	Purchased broad-woven fabrics (piece goods)	2211, 2221, 2231, 2261, 2262
220234	Cotton fabrics	2295, 3079
220239	Textile fabrics, other than cotton	3079
220241	Man-made fiber fabrics, including glass	2295
220311	Cotton fabrics, other than tire cord and tire fabric	3011, 3021, 3031, 3069
220312	Rayon fabrics, other than tire cord and tire fabric	3011, 3021, 3031, 3069
220313	Nylon fabrics, other than tire cord and tire fabric	3011, 3021, 3031, 3069
220319	Fabrics (except tire cord and tire fabric) other than cotton, rayon, and nylon	3011, 3021, 3031, 3069
221102	Cotton bags	2041, 2242, 2243, 2245
	Uncoated broad-woven fabrics (piece goods):	
221103	Cotton	3717
220128	Other	3161, 317
221141	Ticking (mattress)	2515
	Woven upholstery fabrics, excluding ticking and muslin:	
221161	Cotton	2512, 2515
222103	Other (rayon, nylon, etc.)	2512, 2515
225011	Hosiery in the greige	2251, 2252
225601	Knitted fabrics, purchased (cotton, wool, man-made fibers, etc.)	2253, 2254, 2256, 2259, 2311, 232, 233, 234, 236, 238, 3151
	Yarns:	
228013	Yarns, other than combed and carded cotton, rayon and acetate, nylon, acrylic, and wool	2253, 2254, 2256, 2259
228015	Purchased yarn, all fibers, including transfers from other plants of your company	2269
228011	Yarns, other than cotton, nylon filament and spun	2251, 2252
228101	Spun yarn, (all fibers)	2211, 2221, 2231, 228, 2296
228102	Cotton yarns	225, 2292, 2295, 2298, 3357
228110	Carded cotton yarns	2253, 2254, 2256, 2259
228120	Combed cotton yarns	2253, 2254, 2256, 2259

TABLE BB. Materials Consumed Coverage Index—Continued

Material code	Material	Consuming industries (SIC code)
	Yarns--Continued	
228130	Rayon and acetate spun yarns	2253, 2254, 2256, 2259
228301	Wool yarns	
228141	Nylon spun yarns	225
228145	Acrylic yarns	
229308	Paddings and fillings, except rubber and plastic film	2512, 2515
229501	Coated, impregnated or laminated fabrics	3713, 3717, 3791
229503	Plastic coated, impregnated, or laminated fabrics, including artificial leather	2392, 2393, 2394, 2399, 314, 3161, 317
229505	Artificial leather and other coated or impregnated textile fabrics, except rubberized	278
229506	Plastic coated fabric and shade cloth	2591
229508	Coated or laminated fabric for upholstery	2512, 2514, 252, 2531, 254, 2599
	Tire cord and tire fabric:	
229601	Cotton cord	3011, 3031, 3069
229602	Rayon cord	
229603	Nylon cord	
229609	Chafer and other tire fabrics	
229701	Raw wool, mohair, and other animal fibers (scoured weight)	2221, 2231, 2281, 2283, 2284, 2291, 2293, 2297
229704	Wool tops	2221, 2231, 2281, 2283
229921	Burlap bags, new	2041, 2042, 2043, 2045
239300	Textile containers	2871
240011	Plywood and other wood products, except boxes and containers	3131
241108	Logs and bolts (and unsliced flitches)	242, 243, 2441, 2442, 2443, 249, 2611, 2621, 2631, 2661
241109	Poles, piling, and other round or hewn wood products	2491, 2611
	Pulpwood bolts and logs:	
	Softwood:	
241101	Spruce and true fir (not Douglas fir)	2611, 2621, 2631, 2661
241102	Hemlock	
241103	Jack pine	
241104	Southern pine	
241105	Other softwoods, including Douglas fir	
	Hardwood:	
241106	Northern mixed hardwoods	
241107	Poplar (Aspen and popple)	
241113	Southern mixed hardwoods	
241119	Other hardwoods	
242013	Hardwood slabs, chips, cores and other mill waste	
242015	Softwood slabs, cores, and other mill wastes	
242011	Chips, slabs, edgings, shavings, sawdust and other wood wastes	2499
242101	Hardwood lumber, rough and dressed	2432, 2512, 252, 2531, 254, 2599
242103	Softwood lumber, rough and dressed	
242110	Rough lumber, hardwood	2421, 2426, 2431, 2433, 2441, 2442, 2443, 249
242118	Rough lumber, softwood	
242111	Rough lumber, hardwood and softwood	2421, 2499
242120	Dressed lumber	373, 3791
242121	Dressed lumber, hardwood	2421, 2426, 2431, 2433, 2441, 2442, 2443, 2499
242128	Dressed lumber, softwood	
242622	Rough, surfaced or semi-fabricated hardwood furniture dimension stock	2499, 2511, 2512, 2515
242901	Chips, softwood	2611, 2621, 2631, 2661
243201	Plywood, all types	373, 3791
243203	Softwood plywood	243, 2441, 2442, 3443, 2511, 252, 2531, 254, 2599
243210	Hardwood plywood	2432, 2433, 252, 2531, 254, 2599
	Hardwood plywood:	
243211	Veneer core	2431, 2511
243213	Lumber core, including particleboard core	
243215	Container type	2441, 2442, 2443
243250	Hardwood veneer	2431, 2432, 2441, 2442, 2443, 2511, 2522, 2531, 254
243260	Softwood veneer	2431, 2432, 2441, 2442, 2443
244011	Wooden boxes and crates	3211, 3229, 3231
249930	Particleboard	2511, 2514, 252, 2531, 254, 2599
249960	Hard pressed wood fiber board	2511, 2521, 2531, 254, 2599
251261	Furniture frames, wood	2511, 2512, 2515
260012	Paper and paperboard products, including shipping containers, set-up and folding cartons, etc., excluding paperback foil and cigarette paper	2111, 2121, 2131, 2141
260016	Artificial leather, leatherette cover paper, and artificial leather base paper made from wet machine board or paper	278
260091	Paper and paperboard containers	2031, 2036, 2062, 2063, 2091, 2092, 2093, 2096, 282, 2844, 2851, 2911, 2992, 3411, 3491, 3585, 363, 3641, 3662, 367
	Wood pulp:	
261101	Wood pulp, excluding wood flour	2645, 2646, 2821, 2822, 2823
261102	Produced at affiliated or associated mills	2611, 2621, 2631, 2661
261104	Purchased (market) wood pulp	
261122	Linter pulp	2821, 2823
261128	Cotton pulp	
	Paper:	
262102	Uncoated papers (groundwood, book, bond, writing, ledger and manifold)	2721, 2731, 2741, 2771
262150	Bristols, cover, text and other specialty paper, uncoated	
262105	Own paper, produced at this location or at other affiliated or associated mills	264, 265
262106	Purchased (market) paper	2711, 2721, 2731, 2741, 2782
262111	Newsprint	
262112	Newsprint	2732, 275, 2761
262158	Carbonizing tissue stock for conversion by you into one-time carbon paper	2751, 2752, 2761
395500	One-time carbon paper	
262101	All other paper (other than newsprint)	2711, 2732, 2741, 275, 2761, 278, 2771
	Paperboard:	
263102	Own paperboard, produced at this location or at other affiliated or associated mills	264, 265
263103	Purchased (market) paperboard	
263112	Liners	3275
263151	Paperboard, excluding that used for shipping	2732, 275, 2761, 278
264101	Coated paper, all types	2721, 2731, 2741, 2771
264200	Envelopes, purchased	2771
264302	Bags, except textile, including shipping sacks, multiwall bags, and polyethylene liners	2871, 2872
264338	Paper shipping sacks	2041, 2042, 2043, 2045, 3241, 3274, 3275
265011	Paperboard boxes and containers, including folding, corrugated and set-up	2032, 2033, 2035, 2037, 2514, 252, 2531, 254, 2599, 283, 2841, 2842, 3211, 322, 3231, 3261, 3263, 3264, 3269, 3292, 3293, 394, 3982
265013	Paperboard, folding and corrugated boxes	2041, 2042, 2043, 2045
265015	Paperboard containers and converted flexible packaging material	207
265522	Cans, bodies with combinations of fiber and other materials (foil plastic, etc.) with metal ends	2911, 2992
280011	Antioxidants, antiknock compounds and inhibitors	
280012	Additives (except animal and vegetable oil), including soaps and detergents	

TABLE BB. Materials Consumed Coverage Index—Continued

Material code	Material	Consuming industries (SIC code)
266101	Roofing felts (unsaturated), other construction paper and insulating board	2952
266122	Paper felts	3293, 3982
280021	Tanning materials, dressings, and finishes	3111
281211	Chlorine	2611, 2621, 2631, 2661, 2812, 2815, 2818, 2819,
281228	Sodium carbonate (soda ash)	2611, 2621, 2631, 2661, 2812, 2814, 2815, 2818, 2819, 2841, 2842, 3211, 322
281238	Sodium hydroxide (caustic soda)	2611, 2621, 2631, 2661, 2812, 2815, 2818, 2819, 282, 2841, 2842, 2911, 2992
281340	Oxygen, including high and low purity, liquid oxygen should be reduced to its gaseous equivalent	3312
281401	Benzol (benzene)	2812, 2815, 2818
281402	Napthalene, grades of 77.5° or higher	2815, 2818
281511	Aniline	2815, 2818
281403	Creosole oil	2491
331215	Tar, crude	2814
281512	Nitrobenzene	2815
281513	Phenol	2812, 2815, 2818, 2819
281514	Phthalic anhydride	2812, 2815, 2818, 2821, 2851
281515	Melamine	2821, 2822
281516	Styrene	2821, 2822
	Pigments:	
281012	Organic and inorganic	3292, 3982
281531	Dyes, pigments, lakes, and toners	2211, 2221, 2231, 226, 228, 2297, 2851
281600	Inorganic pigments	3011, 3021, 3031, 3069
281611	Titanium dioxide, composite and pure	2611, 2621, 2631, 2661, 2851
281622	Zinc oxide pigments, including leaded zinc oxide	2851
281601	Other inorganic pigments, including chrome colors, whiting, calcium carbonate, precipitates, white and red lead, litharge, lithopone, etc.	2851
281634	Litharge	3691, 3692
281811	Driers (napthenic acid salts, rosin acid salts, etc.)	2851
281820	Alcohols (except ethyl)	2815, 2818, 2819, 2821
281822	Solvents (butyl alcohols, butyl acetate, acetone, etc.)	2851
281823	Formaldehyde	2815, 2818, 2821
281824	Cellulose acetate	2821, 2822
281825	Acrylates and methacrylates, monomers	2821, 2822
281826	Urea and calures	2821, 2822, 2871, 2872
281827	Vinyl acetate, monomer	2821, 2822
281828	Vinyl Chloride, monomer	2821, 2822
281829	Acetic anhydride (net after recovery)	2823
281833	Rubber processing chemicals (accelerators, anti-oxidants, blowing agents, inhibitors, peptizers, etc.)	2821, 2822, 3011, 3021, 3031
281835	Plasticizers	2821, 3011, 3021, 3031, 3069, 3079
281836	Plasticizers, dioctyl phthalate	
281837	Plasticizers, other (dibutyl phthalate, diisodecyl phthalate, dioctyl sebacate, tricreysi phosphate, etc.)	2851
281861	Cellulose nitrate (nitrocellulose)	
281852	Alcohol, ethyl (pure and denatured)	2815, 2818, 2819
	Nitrogenous materials:	
281912	Ammonia, synthetic, anhydrous	2812, 2815, 2818, 2819, 2871, 2872, 2892
281913	Ammoniating or nitrogen solutions, including mixtures containing urea	
281915	Ammonium sulfate	2871, 2872
281916	Other chemical nitrogenous materials, including potassium nitrate and limestone mixtures	
281914	Ammonium nitrate	2871, 2872, 2892
	Acids:	
281930	Sulfuric acid	3312, 3315
281931	Sulfuric acid, except spent	2812, 2815, 2818, 2819, 282, 2871, 2872, 2892, 2911
	Acids--Continued	
281932	Sulfuric acid sludge (decomposition acid)	2819
281933	Sulfuric acid, spent	2871
	Other acids, except spent acids:	
281911	Nitric acid	2815, 2818, 2819, 2892
281901	Mixed acid (sulfuric and nitric)	2892
281944	Hydrochloric acid	2812, 2815, 2818, 2819, 2821
281946	Hydrofluoric acid	2818, 2819, 2911
281948	Phosphoric acid	2818, 2819, 2871, 2872
281951	Alumina	3334
291961	Aluminum sulfate	2611, 2621, 2631, 2661
281971	Potassium pyrophosphate (TKPP)	2841, 2842
281972	Sodium tripolyphosphate (STPP)	2841, 2842
281973	Tetrasodium pyrophosphate (TSPP)	2841, 2842
281974	Trisodium phosphate (TSP)	2841, 2842
281975	Sodium nitrate	2871, 2872
281976	Sodium sulfate, including salt cake	2611, 2621, 2631, 2661, 3211, 322
281980	Chemical catalytic preparations	2911
281995	Silicon, hyper pure	3662, 3673, 3674, 3679
281996	Phosphorous, elemental	2818, 2819
281997	Silver nitrate	3861
282011	Man-made fiber yarn (rayon, acetate, nylon, etc.)	2292, 2295, 2298
282014	Man-made fibers, staple and tow	2253, 2254, 2256, 2259, 2391, 2392, 2399
282101	Polyethylene plastics, all forms	3357
282102	Vinyl plastics, all forms	3357
282103	Cellulosic plastics sheet and rolls, and cellophane	2641, 2643, 2649
282121	Cellophane (tubes, sheets, rolls)	2111, 2121, 2131, 2141
	Resins:	
282130	Thermoplastic resins, including modified resins	2641, 2643, 2649, 265, 2821, 3011, 3021, 3031, 3079, 3461, 3613, 3622, 3642, 3643, 3644, 3661, 3662, 3679, 3713, 3717, 373, 394
282137	Vinyl and vinyl copolymer resins, all forms	2295, 3292, 3982
282140	Thermosetting resins (melamines, phenolics, polyesters, ureas, etc.)	2432, 2433, 2641, 2643, 2649, 2821, 3011, 3031, 3069, 3079, 3461, 3613, 3622, 3642, 3643, 3644, 366, 3679, 3713, 3717, 3731, 3732, 3941, 3942, 3949
282160	Synthetic resins (alkyd, styrene, vinyl, urea, melamine, epoxy, phenolic, acrylic, etc.)	2851
282202	Synthetic rubber (dry solids content of latices)	3357
282203	Butadiene-styrene type (containing 50% or more butadiene)	3011, 3021, 3031, 3069
282204	Butyl type	3011, 3021, 3031, 3069
282205	Neoprene	3011, 3021, 3031, 3069
282206	N-type (butadiene-acrylonitrile)	3011, 3021, 3031, 3069
282207	Stereo elastomers	3011, 3021, 3031, 3069
282208	Polyurethane	3011, 3021, 3031, 3069
282209	Other elastomers	3011, 3021, 3031, 3069
282301	Rayon and acetate filament yarns	2211, 2221, 2253, 2254, 2256, 2259, 2281, 2282, 2296
282305	Rayon and acetate staple and tow	2211, 2221, 2231, 228, 2296
282402	All other man-made filament yarn	2211, 2221, 2231, 228, 2296
282411	Nylon filament yarns	225
282421	All other man-made fiber staple and tow, except glass	2211, 2221, 2231, 2281, 2283, 2297
283301	Vitamins, natural and synthetic, bulk, excluding vitamins for animal feeds	
283317	Sulfa drugs, bulk	
283318	Antibiotics for human and veterinary use, excluding antibiotics for animal feeds	2833, 2834
284101	Soap and detergents	2821, 2822
284141	Glycerine	2821, 2841, 2842

TABLE BB. Materials Consumed Coverage Index—Continued

Material code	Material	Consuming industries (SIC code)
	Bulk surface active agents other than sulfonated oils and fats:	
284309	Primarily for detergent purposes	2841, 2842
284308	Other emulsifiers, wetting agents, penetrants, etc	2841, 2842
284421	Perfume oil mixtures and blends	2841, 2842
285101	Paints, varnishes, lacquers, japans and enamels	2511, 2512, 2514, 252, 2531, 254, 2599, 3411
286101	Rosin	2611, 2621, 2631, 2661
	Phosphatic materials:	
	Superphosphate, used in mixed goods:	
287111	Normal and enriched (less than 40% P_2O_5)	2871, 2872
287114	Concentrated (40% P_2O_5 and over)	
287116	Other phosphatic materials, including wet base goods, ammonium phosphates, etc	
289111	Glues and adhesives	2432, 2641, 2642, 2643, 2649
289118	Sizes	2641, 2643, 2649
289119	Rosin sizing	2611, 2621, 2631, 2661
289301	Printing ink (complete formulations)	2641, 2643, 2649, 265, 2711, 2721, 273, 2741, 275, 2761
289501	Carbon black	2821, 2822, 3011, 3021, 3031, 3069
291101	Fuel oil	2815, 2818, 2895
291163	Extender oils of petroleum origin	2821, 2822
291105	Petroleum thinners (naptha)	2851
291106	Petroleum wax	2641, 2643, 2642, 2647, 2649, 265
	Liquefied petroleum and refinery gases for chemical feedstocks:	
291152	Benzol (benzene) (100% C_6H_6)	2911
291154	Propane	2818
291155	Ethylene	2812, 2815, 2818, 2821
291156	Propylene	2815, 2818
291159	Other, including mixtures	2815, 2818
291157	Butadiene	2821, 2822
291158	Other, including isoprene, propylene, isobutylene, etc	2821, 2822
	Asphalt:	
291191	Less than 200 penetration	295
291195	200 and over penetration	295
291199	Asphalt	2611, 2621, 2631, 2661
300115	Cut stock and findings: plastic and natural and synthetic rubber	314
301131	Pneumatic tires	3522, 3531, 3532, 3536
301141	Inner tubes	3522, 3531, 3532, 3536
303101	Reclaimed rubber, excluding "mud" and crumb or ground scrap	3011, 3021, 3031, 3069
306980	Rubber compounds and mixtures purchased (dry rubber solids content)	3011, 3021, 3031, 3069
306931	Formed and slab stock for pillows, cushions, seating, etc. - rubber	2512
307921	Formed and slab stock for pillows, cushions, seating, etc. (other than rubber, including polyurethane)	2512
307922	Foam cores for mattresses, excluding topper pads, other than rubber, including polyurethane	2512, 2515
306933	Form cores for mattresses, excluding topper pads - rubber	2512, 2515
307901	Plastic containers	283, 2841, 2842, 2844
307902	Plastic rods, tubes, and other shapes	345
307911	Unsupported plastic film and sheeting, excluding packaging material	2391, 2392, 2394, 2399, 2514, 2642, 3079
307912	Plastic rods, tubes, and other stock shapes	3079
307913	Unsupported plastic film and sheeting, not backed, excluding packaging materials	3141, 3142, 3161, 317
307914	Castings, synthetic, including cellulosic and fibrous reinforced	2011, 2013
307916	Unsupported plastics film, sheets, and sheeting (except cellulosic)	2641, 2643, 2647, 2649
307931	Plastic laminated sheets	2511, 2512, 2514, 252, 2531, 254, 2599
307984	Composition and nuclear types of soling materials	314
311100	Finished leather	2381, 2386, 2387, 3151, 3161, 317, 3199, 3941, 3943, 3949
	Finished leather for footwear cut stock and findings:	
	Upper leather:	
311102	Lining and other	3121, 3131
311103	Lining leather	314
311104	All other upper leather	314
	Soling leather:	
311105	Innersole leather	3121, 3131, 314
311106	All other soling leather	3121, 3131, 314
311107	All other finished leather	314, 3121, 3131
311108	All other finished leather	314, 3121, 3131
313108	Cut stock and findings leather and other	314
	Glass:	
322921	Glass: tube blanks	3662, 3671, 3672, 3674, 3679
320311	Glass products other than tube blanks	3662, 3671, 3672, 3674, 3679
321101	Flat glass (plate and sheet)	2511, 2514
321111	Sheet glass	3211, 3229, 3231
321121	Plate glass	3211, 3229, 3231
322101	Containers, glass	2032, 2033, 2035, 2037, 2085, 2091, 2092, 2093, 2095, 2096, 2099, 283, 2841, 2842, 2844
322102	Containers, glass	2032, 2033, 2035, 2037, 2085, 2091, 2092, 2093, 2095, 2096, 2099, 283, 2841, 2842, 2844
322911	Glass tumblers, stemware, and other tableware	3229, 3231
322901	Other glass products	3229, 3231
322931	Glass fiber roving, mats, etc	3079, 373
322935	Glass filament yarn and roving	2221
323150	Mirrors, framed and unframed	2511
324101	Portland cement	3271, 3272, 3273, 3292, 3293
	Refractories:	
325501	Clay	3211, 322, 3241, 3261, 3264, 3269, 3312, 3313
329701	Nonclay	3211, 322, 3241, 3261, 3264, 3269, 3312, 3313
327401	Lime	2611, 2621, 2631, 2661
329501	Roofing granules	2952
329905	Mica	3671, 3673, 3679
331210	Coke, including breeze	2812, 2819
331051	Pig iron, excluding silvery iron	3312, 332, 336, 343, 344, 3494, 3522, 3531, 3532, 3536, 354, 3552, 3554, 3555, 3559, 3561, 3564, 3566, 3569, 3644, 3694, 3699, 3713, 3715, 3717, 374
	Mill shapes and forms (except castings):	
331001	Carbon steel	3861, 3914, 394, 3963, 3964, 3999
331005	Ingots, semifinished shapes (blooms, billet, etc.) and other steel shapes received for further processing	3312, 3315
331009	Concrete reinforcing bars	3271, 3272, 344
331010	Bars and bar shapes, excluding concrete reinforcing bars	344, 3511
331011	Bars and bar shapes, including concrete reinforcing bars	1911, 192, 1931, 1951, 1961, 1999, 3411, 342, 3431, 3433, 345, 3461, 3481, 3491, 3492, 3493, 3494, 3498, 3499, 3519, 3522, 353, 354, 355, 3561, 3562, 3564, 3565, 3566, 3569, 357, 358, 361, 3621, 3622, 3623, 363, 3642, 3643, 3644, 3651, 3661, 3662, 367, 3694, 3713, 3715, 3717, 372, 373, 374, 3751, 379, 3811, 382, 3831
331012	Sheet and strip	1911, 192, 1931, 1951, 1961, 1999, 2511, 2514, 2515, 252, 2531, 254,

TABLE BB. **Materials Consumed Coverage Index**—Continued

Material code	Material	Consuming industries (SIC code)
	Mill shapes and forms (except castings)--Continued	
	Carbon steel--Continued	
331012	Sheet and strip--Continued	259, 3411, 342, 343, 344, 345, 3461, 3481, 3494, 3498, 3499, 351, 3522, 353, 354, 3551, 3552, 3553, 3555, 3559, 356, 357, 3581, 3582, 3585, 3586, 3589, 3599, 361, 3621, 3622, 3623, 3631, 3633, 3634, 3635, 3636, 3639, 3642, 3643, 3644, 3651, 366, 367, 3694, 3713, 3715, 3717, 372, 373, 374, 3751, 379, 3811, 382
331013	Plates	1911, 192, 1931, 1951, 1961, 1999, 342, 343, 344, 345, 3461, 3494, 3498, 3499, 351, 3522, 353, 354, 3551, 3553, 3554, 3555, 3559, 356, 358, 3599, 361, 3621, 3622, 363, 3642, 3694, 3713, 3715, 3717, 372, 373, 374, 3751, 3799, 3811, 382
331015	Structural shapes	1911, 192, 1999, 3433, 344, 3461, 3481, 3491, 3498, 3499, 351, 3522, 353, 354, 3551, 3552, 3555, 3559, 3599, 356, 357, 358, 361, 3622, 3623, 363, 3642, 3662, 367, 3713, 3715, 3717, 372, 373, 374, 3751, 379, 3811, 382
331017	Wire and wire products	1911, 192, 1931, 1951, 1961, 1999, 3011, 3021, 3031, 3069, 3411, 3421, 3423, 3425, 3429, 3433, 344, 345, 3461, 3481, 3491, 3493, 3498, 3499, 351, 3522, 3531, 3532, 3534, 3535, 3536, 3537, 354, 3552, 3555, 3559, 3562, 3564, 3565, 3566, 3569, 357, 3585, 3599, 3611, 3621, 3623, 363, 3642, 3643, 3644, 3662, 3671, 3673, 3674, 3679, 3694, 3713, 3715, 3717, 372, 373, 374, 3751, 3799, 3811, 382
331018	Tin plate, terne plate and black plate	3411, 3461, 3491
331019	All other carbon steel mill shapes and forms	1911, 192, 931, 1951, 1961, 1999, 2511, 2514, 2515, 2519, 252, 2531, 254, 259, 3411, 342, 343, 344, 345, 3461, 3481, 3491, 3493, 3494, 3498, 3499, 351, 3522, 353, 354, 355, 3561, 3564, 3565, 3566, 3567, 3569, 3571, 3572, 3576, 3579, 358, 3599, 361, 3621, 3622, 3623, 363, 3642, 3643, 3644, 3651, 366, 3671, 3673, 3674, 3679, 3694, 3713, 3715, 3717, 372, 373, 374, 3751, 379, 3811, 382, 3831
331020	Alloy steel (except stainless)	2511, 2514, 2515, 2522, 2531, 254, 259, 3411, 3429, 3491, 3534, 3535, 3537, 3551, 3552, 3553, 3554, 3567, 357, 3581, 3582, 3589, 3612, 3613, 3621, 3622, 3623, 3643, 3644, 3651, 3694, 3699, 373, 374, 3751, 3799, 3861, 3914, 394, 3963, 3964, 3999

Material code	Material	Consuming industries (SIC code)
	Mill shapes and forms (except castings)--continued	
331021	Bars and bar shapes	1911, 192, 1931, 1951, 1961, 1999, 3421, 3423, 3425, 343, 344, 345, 3461, 3481, 3494, 3498, 3499, 351, 3522, 3531, 3532, 3533, 3536, 354, 3555, 3559, 3561, 3562, 3564, 3565, 3566, 3569, 3585, 3586, 3599, 3611, 363, 3642, 366, 367, 3713, 3715, 3717, 372, 3791, 3811, 382, 3831
331029	All other alloy steel mill shapes and forms	
331031	Stainless steel mill shapes and forms	1911, 192, 1931, 1951, 1961, 1999, 2511, 2514, 2515, 252, 2531, 254, 2599, 3411, 342, 343, 344, 345, 3461, 3481, 3491, 3493, 3494, 3498, 3499, 351, 3522, 353, 354, 355, 356, 357, 3581, 3582, 3585, 3589, 3599, 361, 3621, 3622, 3623, 363, 3642, 3643, 3644, 3651, 366, 367, 3694, 3699, 3713, 3715, 3717, 372, 373, 374, 3751, 379, 3811, 382, 3831, 3861, 3914, 394, 3963, 3964, 3999
	Carbon steel:	
331041	Ingots	
331042	Blooms, billets, and slabs	
331043	Bars	
	Alloy steel (except stainless):	
331044	Ingots	
331045	Blooms, billets and slabs	3391, 3392
331046	Bars	
	Stainless steel:	
331047	Ingots	
331048	Blooms, billets and slabs	
331049	Bars	
331201	Steel mill shapes and forms (such as plates, sheets, strip, piling, roof bolts, drill steel bars, other bars, rails, wheels, track accessories pipe tubing, wire, wire products and structural shapes)	
	Rods:	
331061	Carbon steel	
331063	Alloy steel (except stainless)	
331065	Stainless steel	3315
	Wire for redrawing:	
331073	Carbon steel	
331075	Alloy steel (except stainless)	
331077	Stainless steel	
335608	Nonferrous wire for redrawing, excluding aluminum and copper	3357
331079	Other steel mill shapes for drawing wire	3312, 3315
331081	Steel rails for rerolling	
331091	Steel wire strand and bars or rods, high strength, stress relieved	3271, 3272
331092	Steel welded wire concrete reinforcing mesh	
	Ferroalloys:	
331312	Ferromanganese	3312, 3313, 3316, 332, 336
331320	Ferrochromium	3312, 3313
331330	Ferrosilicon (over 6% silicon)	
331340	Spiegeleisen	
331341	Ferrotungsten	
331342	Other ferroalloys, including silvery iron and ferronickel	
331309	Other ferroalloys, including silvery iron	332,336

TABLE BB. **Materials Consumed Coverage Index**—Continued

Material code	Material	Consuming industries (SIC code)
	Nonferrous metals and alloys (ingot, pit, shot, etc.):	
333010	Nonferrous plating metals (chromium, nickel, zinc, etc.)	3498, 3499
333111	Blister or anode copper	3331
333121	Refined unalloyed copper (wire, bar, cathodes, ingot, cakes, slabs, etc.)	332, 3341, 335, 336
334123	Copper-base alloy, raw material	332, 335, 336
333122	Copper and copper-base refinery shapes	3312, 3315, 3429, 3431, 3432, 3494, 3561, 3562, 3566, 3643, 3644
333232	Lead and lead-base alloys	3315, 3351, 3352, 3356
333233	Refined unalloyed lead	3341, 3691
333234	Antimonial lead	3691
333341	Refined unalloyed zinc	3333, 3341
333348	Zinc and zinc-base alloy refinery shapes	2815, 2819, 3312, 3315, 3321, 3322, 3351, 3352, 3356, 336, 3429, 344, 3461, 3643, 3644
333401	Aluminum and aluminum-base alloy refinery shapes	192, 3312, 3411, 3429, 3431, 3432, 344, 3494, 3496, 351, 3561, 3581, 3586, 3589, 3621, 3631, 3633, 3634, 3635, 3636, 3642, 3643, 3644, 3694, 3713, 3717, 3722, 3729, 3861
333404	Aluminum unalloyed	332, 3351, 3352, 3356, 336
333405	Aluminum-base alloys	
333471	Aluminum ingot	3341, 3391, 3392
333903	Precious metal, all forms, including ingot, sheet, strip, solder, plating electrodes, etc	3914
333971	Nickel and nickel-base alloys	3351, 3356
333973	Magnesium and magnesium-base alloys	3321, 3323, 3351, 3352, 3356, 336
333975	Tin	3315
333976	Tin, unalloyed, refined	3341
333909	Other nonferrous metals and alloys	3351, 3352, 3356
335128	Brass mill shapes (rod, bar, sheet, etc.)	
335100	Brass mill shapes (rod, bar, sheet, etc.)	3699
335003	Copper and copper-base alloy mill shapes and forms	3861, 3914, 3941, 3942, 3949, 3963, 3964, 3999
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes	1911, 192, 1931, 1951, 1961, 1999, 3421, 3423, 3429, 343, 344, 345, 3461, 3481, 3494, 3498, 3499, 351, 3522, 353, 354, 355, 356, 357, 358, 3599, 361, 362, 363, 364, 3651, 366, 3671, 3673, 3674, 3679, 3694, 3713, 3715, 3717, 3721, 3722, 3729, 373, 374, 3751, 379, 3811, 382, 3831
	Wire (electrical):	
335112	Wire for redrawing	3357
335725	Bare wire	
335728	Bare wire (for electrical conduction only)	1911, 192, 1999, 3423, 3429, 3433, 344, 3451, 3452, 3461, 3481, 3494, 3499, 351, 3522, 353, 354, 3551, 3552, 3553, 3554, 3559, 3561, 3562, 3564, 3566, 3567, 3569, 357, 3581, 3582, 3585, 3589, 3599, 361, 362, 363, 364, 3651, 366, 3671, 3673, 3674, 3679, 3694, 3699, 3713, 3717, 372, 373, 374, 3751, 379, 3811, 382

Material code	Material	Consuming industries (SIC code)
	Copper and copper-base mill shapes and forms--Continued	
	Wire (electrical)--Continued	
335790	Insulated wire and cable	1911, 192, 1931, 1951, 1999, 3357, 3423, 3429, 343, 344, 345, 3461, 3481, 3494, 3499, 351, 3522, 353, 354, 355, 3561, 3562, 3564, 3566, 3567, 3569, 357, 3599, 358, 361, 362, 363, 364, 3651, 366, 367, 3694, 3699, 3713, 3715, 3717, 372, 373, 3741, 3742, 3751, 379, 3811, 382, 3831
335123	Plate, sheets, and strip, including military cups and discs	1911, 192, 1951, 1961, 1999, 3421, 3423, 3429, 343, 344, 345, 3461, 3481, 3494, 3498, 3499, 351, 3522, 353, 3541, 3542, 3544, 3545, 3548, 355, 356, 357, 358, 3599, 361, 362, 363, 364, 3651, 366, 367, 3694, 3713, 3715, 3717, 372, 373, 374, 3751, 379, 3811, 382, 3831
335127	Pipe and tube	
	Rods:	
335124	Copper, unalloyed	3357
335125	Copper-base alloy	
335109	Other copper and copper-base alloy mill shapes and forms, including mechanical wire	
335208	Aluminum and aluminum-base alloy mill shapes and forms	2431, 2433, 2522, 2531, 254, 2599, 339, 3699, 3914, 394, 3963, 3964, 3999
335200	Aluminum and aluminum-base alloy mill shapes and forms (rod, bar, sheet, etc.)	3351, 3352
335202	Sheet, plate and foil	1911, 192, 1931, 1951, 1999, 2431, 2514, 2591, 3411, 3421, 3423, 3429, 343, 344, 345, 3461, 3481, 3491, 3494, 3498, 3499, 351, 3522, 353, 354, 355, 356, 357, 358, 3599, 361, 3621, 3622, 3629, 363, 364, 3651, 366, 367, 3694, 3713, 3715, 3717, 372, 373, 374, 3751, 379, 3811, 3822, 3831
335203	Sheet and plate	265, 3496, 3497
335205	Extruded shapes, including extruded rod, bar, pipe, tube, etc	1911, 192, 1931, 1951, 1999, 2431, 2514, 2591, 3411, 342, 343, 344, 345, 3461, 3481, 3494, 3497, 3498, 3499, 351, 3522, 353, 354, 355, 356, 357, 358, 3599, 361, 3621, 3622, 3629, 363, 364, 3651, 366, 367, 3694, 3713, 3715, 3717 372, 373, 374, 3751, 379, 3811, 382, 3831
335231	Plain foil	265, 3497
335209	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)	1911, 192, 1931, 1951, 1999, 2431, 2514, 2591, 3411, 3421, 3423, 3429, 3431, 3432, 3433, 344, 345, 3461, 3481, 3494, 3497, 3498, 3499, 351, 3522, 3531, 3532, 3536,

TABLE BB. Materials Consumed Coverage Index—Continued

Material code	Material	Consuming industries (SIC code)
	Aluminum and aluminum-base alloy mill shapes and forms--Continued	
	Aluminum and aluminum-base alloy mill shapes and forms (rod, bar, sheet, etc.)--Continued	
335209	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)--Con.	3553, 3554, 3555, 3559, 356, 357, 358, 3599, 3632, 361, 3621, 3622, 3629, 363, 364, 3651, 366, 367, 3694, 3713, 3715, 3717, 372, 373, 374, 3751, 379, 3811, 382, 3831
335251	Rods	3357
	Wire:	
335716	Wire for redrawing	
335718	Bare wire	
335207	All other mill shapes and forms	
335609	All other nonferrous mill shapes and forms, excluding aluminum and copper.	
	Titanium and titanium-base alloy:	
335600	Ingot	3391, 3392
335601	Mill shapes	3391, 3392, 3721, 3722, 3729
335602	Tantalum mill products	367
335603	Molybdenum, rolled, drawn, or extruded	
	Magnesium and magnesium-base alloys:	
339912	Powder	1911, 1999
335604	All other shapes and forms	
335605	Germanium	3662, 3673, 3674, 3679
335606	Nickel and nickel-base alloy mill shapes and forms	3662, 3671, 3673, 3674, 3679
335607	Zinc and zinc-base alloy mill shapes and forms	3692
335733	Tungsten wire	367
	Castings (rough and semifinished):	
332011	Iron (gray and malleable)	1911, 1929, 1931, 1951, 1999, 3421, 3423, 3429, 343, 344, 3461, 3494, 3498, 3499, 351, 3522, 353, 354, 355, 3561, 3562, 3564, 3565, 3566, 3569, 358, 3599, 3621, 363, 3642, 3643, 3644, 3694, 3713, 3715, 3717, 374, 3831
332300	Steel	1911, 192, 1931, 1951, 1999, 3421, 3423, 3429, 343, 344, 3451, 3452, 3461, 3481, 3493, 3494, 3498, 3499, 351, 3522, 353, 354, 3551, 3553, 3554, 3559, 356, 357, 3586, 3599, 358, 3611, 3613, 3621, 3622, 3632, 3642, 3662, 3671, 3673, 3674, 3679, 3713, 3715, 3717, 3722, 3723, 3729, 373, 374, 3751, 379, 3811, 382, 3831
336100	Aluminum and aluminum-base alloy	1911, 192, 1931, 1951, 1999, 3421, 3423, 3429, 343, 344, 345, 3461, 3464, 3481, 3494, 3498, 3499, 351, 3522, 353, 354, 355, 3561, 3562, 3565, 3566, 3569, 357, 358, 3599, 3611, 3613, 3621, 3622, 363, 3642, 3643, 3644, 3651, 366, 367, 3694, 3713, 3715, 3717, 372, 373, 374, 3791, 3831, 3861, 3811, 382, 3914
	Castings (rough and semifinished)--Con.	
336200	Copper and copper-base alloy	1911, 1929, 1931, 1951, 1999, 3421, 3423, 3429, 343, 344, 345, 3461, 3481, 3494, 3498, 3499, 351, 3522, 353, 354, 3551, 3553, 3554, 3555, 3559, 3561, 3562, 3564, 3565, 3566, 3569, 358, 3599, 3611, 3613, 3621, 3622, 3632, 3642, 3643, 3644, 3662, 367, 3694, 3713, 3715, 3717, 372, 373, 3811, 382, 3831, 3914, 3999
	Forgings:	
339100	Iron and steel	1911, 192, 1931, 1951, 1999, 3421, 3423, 3431, 3432, 3494, 3498, 3499, 351, 3522, 353, 354, 3553, 3561, 3562, 3566, 3585, 3586, 3621, 3632, 3713, 3715, 3717, 372, 374, 3751, 3799, 3831
339200	Aluminum and aluminum-base alloy	1911, 192, 1931, 1951, 1999, 3713, 3715, 3717, 372
339201	Titanium and titanium-base alloy	3721, 3722
339913	Ferrites (powders and paste)	3651, 3662, 3672, 3679
340001	Metal containers	2031, 2036, 2041, 2042, 2043, 2045, 283, 2841, 2842, 2844, 2851, 2911, 2992
340003	Metal containers, excluding drums	2091, 2092, 2093, 2096
341101	Metal cans	2032, 2033, 2035, 2037
342901	Furniture and builders' hardware, including cabinet, hardware, casters, glides, handles, hinges, locks, etc	2511, 2512, 2514, 252, 2531, 254, 2599
342940	Builders' hardware assorted	2431, 2433
342953	Trunk and luggage hardware, including locks	3161
342956	Hose fittings and couplings	3011, 3031, 3069
348138	Springs, innerspring units, and box-spring constructions	2512, 2514, 2515
349401	Values and pipe fittings (except plumbers' brass goods and fittings)	3498, 3499
349702	Aluminum foil, laminated	3497
349901	Constructions for dual-purpose sleep furniture	2512, 2515
	Engines:	
351901	Gasoline and other carburetor	1911, 1999, 3522, 353, 3561, 3586, 3621, 3731
351920	Diesel and semi-diesel	3522, 3531, 3532, 3533, 3536, 3561, 3586, 3621, 373, 374
	Bearings:	
356218	Ball	1911, 192, 1931, 1951, 1961, 1999, 3433, 351, 3522, 353, 3541, 3542, 3544, 3545, 3548, 355, 3561, 3562, 3564, 3566, 357, 3585, 3586, 3611, 3621, 3631, 3632, 3694, 3713, 3715, 3717, 3721, 3722, 3729, 374, 3751, 379, 3811, 382, 3831
356228	Roller	
356601	Mechanical power transmission equipment, except motor vehicle, including gears, clutches, etc	3531, 3532, 3536
	Electric and electronic parts and components:	
	Electric motors:	
362110	Timing motors, synchronous and subsynchronous (under 1 hp)	1911, 192, 1999, 3433, 354, 3553, 3564, 3571, 3572, 3576, 3581, 3582, 3585, 3589, 3611, 363, 3651, 3662, 3671, 3673, 3674, 3679, 3721, 3722, 3729, 3811, 382, 3861, 3871, 3831

TABLE BB. Materials Consumed Coverage Index—Continued

Material code	Material	Consuming industries (SIC code)
	Electric and electronic parts and components--Continued	
	Electric motors--Continued	
362115	Fractional horsepower electric motors (under 1 hp.), excluding timing motors	1911, 192, 1931, 1999, 3433, 3522, 3531, 3532, 3534, 3535, 3537, 354, 3551, 3553, 3555, 3559, 3561, 3564, 3569, 357, 3581, 3582, 3585, 3586, 3589, 3611, 363, 3651, 3662, 367, 3713, 3717, 3721, 3722, 3729, 3811, 382, 3831, 3861, 3871, 3941, 3942, 3949
362120	Integral horsepower motors and generators (1 hp. and over)	3433, 351, 3522, 3531, 3532, 3534, 3535, 3536, 3537, 354, 355, 3561, 3564, 3569, 3571, 3576, 3581, 3582, 3586, 3585, 3589, 3621, 3632, 3721, 3722, 3729, 373, 374
	Industrial electrical control equipment (received for incorporation only into other industrial electrical control equipment shipped, as such by this plant):	
362200	Received from other companies	3613, 3622
362209	Received from other plants of your company	
362406	Carbon and graphite electrodes and other carbon and graphite products for electrical use	3692
367010	Electron tubes, except X-ray	357, 3611, 3621, 3629, 3643, 3651, 366, 367, 3699, 3811 382, 3861
367408	Solid state semiconductors	
367951	Fabricated electron tube parts, except blanks	3662, 3671, 3672, 3673, 3679
369101	Storage batteries	3535, 3537
372911	Hydraulic fluid power pumps, motors, and related hydraulic equipment - aircraft	3721, 3722, 3729
383101	Photographic and projection lens and prisms	3861
	Watchcases:	
	Men's wristwatch cases:	
387200	Karat gold and platinum	3871
387201	Gold filled	
387202	Rolled gold plate and sterling silver, including rolled gold plate with steel back	
387203	Other metals	
	Women's wristwatch cases:	
387204	Karat gold and platinum	
387205	Gold filled	
387206	Rolled gold plate and sterling silver, including rolled gold plate with steel back	
387207	Other metals	
	Watchcases--Continued	
	Women's wristwatch cases--Continued	
387208	Pocket and other watchcases	3871
387209	Imported watch movements	
	Wastepaper:	
941111	Mixed	2611, 2621, 2631, 2661
941112	News	
941113	Corrugated	
941114	High grade pulp substitutes	
941115	High grade de-inking	
941121	Crankcase drainings and other used oils consumed for refining or reclaiming	2911, 2992
941259	Other fibrous materials, including rags, straw, and bagasse	2611, 2621, 2631, 2661
970001	All other materials, ingredients, containers, and supplies used in distilling operations (cooperage, etc.)	2085
970002	All other materials, ingredients, containers, and supplies used in bottling operations (flavors, bottles, closures, etc.)	
970005	Containers and wrapping materials	205
970011	Containers and other packaging supplies	314
970089	Cost of materials received from petroleum refineries and lube manufacturers	2911, 2992
	Waste and scrap:	
999806	Cotton waste	2291, 2293, 2294
999807	Other fibers (synthetic staple, tow, waste, etc.)	
999823	Wool noils and waste	
999825	New and used rags, clips, etc	
	Scrap:	
999808	Aluminum and aluminum-base alloy	1929, 332, 336, 3429, 3432, 344, 3494, 3519, 3589, 3635, 3636, 3643, 3644, 3715, 3717
999809	From other establishments of your company	3341, 3351, 3352, 3356
999810	From all other sources	
999811	Iron and steel	1911, 1929, 1999, 3312, 3313, 332, 336, 343, 344, 3494, 3522, 3531, 3532, 354, 3552, 3554, 3555, 3559, 3561, 3562, 3564, 3566, 3569, 3586, 3713, 3715, 3717, 374
999812	Copper and copper-base alloy	332, 3331, 3334, 3341, 335, 336, 3429, 3432, 3494, 3566, 3643
999813	Lead and lead-base alloy scrap	3333, 3334, 3341
999814	Zinc and zinc-base alloy scrap, including drosse and skimmings	3333, 3341, 3351, 3352, 3356
999816	Cullet (glass scrap)	3211, 3229
999821	Inert fillers, secondary plant food, and soil conditioners, including sand, limestone, peat, nut hulls, citrus meals, etc	2871, 2872
970099	All other materials and components, parts, containers, and supplies consumed	All industries

FOODS

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FOODS

MATERIALS CONSUMED

This section presents data on selected important materials used primarily in the food manufacturing industries. Characteristically, many of these materials are used for similar purposes both in manufacturing and nonmanufacturing establishments. For example, flour is consumed in bakeries which are classified in manufacturing and also in retail bakery products stores which are not classified in manufacturing. In addition, substantial quantities of many of these materials are consumed directly by households. The discussion and tables that follow relate only to industrial consumption; that is consumption in the manufacturing sector as defined in the Standard Industrial Classification Manual.

LIVESTOCK SLAUGHTERED

Data shown in tables 2A and 2B represent the livestock slaughtered in industry 2011, Meat Packing Plants.

The 1963 Census of Manufactures included establishments accounting for about 90 percent of the volume of commercial livestock slaughter as pounds, reported by the U.S. Department of Agriculture, compared with 90 percent for 1958. Differences arise from the following: (1) Establishments classified in wholesale or retail trade and included in the census of business; for example, locker plants, retail butcher shops, and wholesale meat jobbers; (2) custom slaughtering and contract work for which the establishments reported amount of contract receipts in the census of manufacture; (3) establishments with no paid employers which were excluded from census coverage; and (4) establishments not subject to Social Security payments such as municipal abattoirs.

The statistics cover the fiscal year ending October 31 rather than the calendar year, since companies accounting for the larger part of the slaughter reported on the fiscal year basis. A comparison with the Department of Agriculture estimates indicated that the difference between calendar- and fiscal-year data is relatively small.

POULTRY KILLED AND DRESSED

Table 2C contains data on the chickens and turkeys killed in establishments classified in Industry 2015, "Poultry Dressing Plants." A comparison with the Department of Agriculture estimates indicates that establishments included in the census of manufactures in 1963 accounted for about 75 percent and in 1958 for about 73 percent by live weight of the total commercial broiler slaughter in commercial plants (including farm slaughter). The 1963 Census of Manufactures data show that establishments classified in the Poultry Dressing Plants Industry slaughtered 98 percent, by live weight, of the chickens, turkeys, and other fowl killed in manufacturing establishments as compared to about 98 percent in 1958.

SUGAR

In addition to the sugar consumed in manufacturing establishments, as shown in tables 1C and 2F, substantial quantities are consumed in households, restaurants, hotels, retail bakeries, and wholesale trade establishments in making various food preparations.

FISH

In addition to the quantity of fish utilized in manufacturing establishments, as shown in tables 1E and 2H, some quantity of fish is packaged in wholesale trade establishments which are not included in these tables. The data do not include that portion of the catch sold for consumption as fresh fish.

DAIRY PRODUCTS

The data shown in tables 1D and 2I represent only the quantity purchased (or transferred from one establishment to another). There is also a substantial production of skim milk produced and consumed in the same plant, which is not reflected in these tables.

TABLE 1A. Grains Consumed, by Selected Industries: 1963 and 1958

Code	Industry	1963		1958		1963		1958	
		Quantity (1,000 bushels)	Delivered cost ($1,000)	Quantity (1,000 bushels)	Delivered cost ($1,000)	Quantity (1,000 bushels)	Delivered cost ($1,000)	Quantity (1,000 bushels)	Delivered cost ($1,000)
		WHEAT (011371)				CORN (011301, 011321, 011322)			
	Total	628,859	1,393,351	592,003	1,248,177	632,030	860,259	508,724	682,624
2041	Flour mills	583,121	1,312,752	563,143	1,192,521	85,563	111,439	69,582	90,354
2042	Prepared animal feeds	30,206	53,147	21,613	38,841	311,235	419,987	246,246	343,412
2043	Cereal preparations	14,059	24,562	7,247	16,815	10,037	16,265	10,854	16,138
2045	Blended and prepared flour	1,473	2,890	(1)	(1)	1,366	1,893	(1)	(1)
2046	Wet corn milling	(1)	(1)	-	-	[2]171,493	[2]233,081	140,948	169,396
2082	Malt liquors	-	-	-	-	20,196	35,346	12,207	24,058
2083	Malt	-	-	-	-	-	-	-	-
2085	Distilled liquor, except brandy	-	-	-	-	32,140	42,248	28,887	39,266
		OATS (011331)				BARLEY (011311)			
	Total	99,556	81,753	137,368	107,240	125,310	166,148	120,362	161,650
2041	Flour mills	13,505	10,207	16,776	12,366	3,256	3,573	4,266	4,697
2042	Prepared animal feeds	63,693	53,838	97,262	77,694	38,546	40,942	36,437	39,306
2043	Cereal preparations	22,278	17,644	23,330	17,180	746	1,091	1,314	1,530
2045	Blended and prepared flour	80	64	(1)	(1)	-	-	-	-
2046	Wet corn milling	-	-	-	-	-	-	-	-
2082	Malt liquors	-	-	-	-	3,672	7,197	(NA)	(NA)
2083	Malt	-	-	-	-	79,090	113,345	78,345	116,117
2085	Distilled liquor, except brandy	-	-	-	-	-	-	-	-

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1]A small amount of this material was consumed by this industry, but no detail data were collected in the census.

[2]Includes sorgum grain.

TABLE 1B. Wheat Flour, Semolina and Durum Flour Consumed, by Selected Industries: 1963 and 1958

Code	Industry	Wheat flour, except semolina and durum (204101 and 204119)				Semolina and durum flour (204115)			
		1963		1958		1963		1958	
		Quantity (cwt.)	Delivered cost ($1,000)	Quantity (cwt.)	Delivered cost ($1,000)	Quantity (cwt.)	Delivered cost ($1,000)	Quantity (cwt.)	Delivered cost ($1,000)
	Total	148,345,581	849,535	130,301,040	750,469	9,881,595	63,240	8,161,459	52,977
2032	Canned specialties	1,479,386	10,441	(NA)	(NA)	-	-	-	-
2037	Frozen fruits and vegetables	2,877,601	16,149	3,124,659	18,803	-	-	-	-
2041	Flour mills	3,479,349	18,499	4,597,622	22,900	-	-	-	-
2042	Prepared animal feeds	5,945,992	15,705	2,414,816	8,823	-	-	-	-
2043	Cereal preparations	2,386,746	14,608	1,162,197	5,940	-	-	-	-
2045	Blended and prepared flour	10,974,543	64,656	5,177,017	29,278	-	-	-	-
2051	Bread and related products	95,789,930	578,678	91,954,520	551,161	-	-	-	-
2052	Biscuit, crackers, and cookies	22,636,110	115,340	19,626,520	100,398	-	-	-	-
2098	Macaroni and spaghetti	990,684	6,332	907,001	5,389	9,881,595	63,240	8,161,459	52,977
2099	Food preparations, n.e.c.	1,735,240	9,127	1,336,688	7,777	-	-	-	-

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

TABLE 1C. Refined Sugar (Cane and Beet-206011) Consumed, by Selected Industries: 1963 and 1958

Code	Industry	1963		1958		Code	Industry	1963		1958	
		Quantity (cwt.)	Delivered cost ($1,000)	Quantity (cwt.)	Delivered cost ($1,000)			Quantity (cwt.)	Delivered cost ($1,000)	Quantity (cwt.)	Delivered cost ($1,000)
	Total	109,638,108	1,094,085	88,027,461	791,480	2041	Flour mills	1,541,476	14,513	1,697,627	15,896
						2042	Prepared animal feeds	1,025,267	8,235	527,417	3,942
						2043	Cereal preparations	2,665,912	25,042	1,770,464	15,707
2021	Creamery butter	757,394	8,022	109,568	909	2045	Blended and prepared flour	4,221,946	42,363	2,781,684	25,711
2022	Natural and process cheese	54,423	607	17,700	177	2051	Bread and related products	12,961,720	128,112	13,357,340	121,884
2023	Condensed and evaporated milk	1,492,307	14,505	1,033,102	9,217	2052	Biscuit, crackers, and cookies	6,048,480	59,912	5,099,830	46,753
2024	Ice cream and frozen desserts	3,879,672	39,488	2,809,630	25,046	2071	Confectionery products	12,718,234	129,321	12,346,369	112,462
2026	Fluid milk	3,419,206	35,715	3,261,936	30,689	2072	Chocolate and cocoa products	5,131,784	52,774	4,277,046	37,899
2032	Canned specialties	1,710,112	16,765	1,138,381	10,337	2073	Chewing gum	1,450,925	14,315	1,479,180	12,932
2033	Canned fruits and vegetables	12,211,673	117,788	7,850,854	71,015	2082	Malt liquors	274,414	2,259	401,769	3,084
2034	Dehydrated foods products	166,748	1,648	(NA)	(NA)	2086	Bottled and canned soft drinks	14,448,694	153,729	11,136,308	100,485
2035	Pickles, sauces, salad dressings	2,666,051	26,692	1,568,410	14,101	2087	Flavorings	13,078,318	125,501	9,773,931	83,431
2037	Frozen fruits and vegetables	2,408,489	24,380	1,040,870	9,792	2099	Food preparations, n.e.c.	5,304,863	52,399	4,548,045	40,011

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.

TABLE 1D. Dairy Products Consumed, by Selected Industries: 1963 and 1958

(The figures below represent purchased materials, or material transferred from other plants of same company, and exclude materials made and consumed in the same plant)

Code	Industry	1963						1958					
		Cheese, other than cottage (202210)		Ice cream and ice milk mix (202401)		Skim milk (fluid) (202612)		Cheese, other than cottage (202210)[1]		Ice cream and ice milk mix (202401)		Skim milk (fluid) (202612)	
		Quantity (cwt.)	Delivered cost ($1,000)	Quantity (1,000 gallons)	Delivered cost ($1,000)	Quantity (cwt.)	Delivered cost ($1,000)	Quantity (cwt.)	Delivered cost ($1,000)	Quantity (1,000 gallons)	Delivered cost ($1,000)	Quantity (cwt.)	Delivered cost ($1,000)
	Total	8,616,940	317,279	107,787	94,197	94,956,269	93,361	7,102,730	220,841	108,934	113,424	71,198,182	69,509
2021	Creamery butter	34,820	1,171	945	960	14,415,008	14,619	62,630	2,272	2,147	1,848	13,719,793	12,281
2022	Natural and process cheese	8,483,210	312,043	(D)	(D)	5,430,593	5,528	5,413,090	191,201	2,386	2,306	3,708,023	3,952
2023	Condensed and evaporated milk	(D)	(D)	(D)	(D)	48,458,716	38,969	-	-	358	412	38,171,720	32,314
2024	Ice Cream and frozen desserts	(D)	(D)	86,047	55,103	1,327,788	2,285	7,810	591	57,700	62,701	1,878,740	1,892
2026	Fluid milk	(D)	(D)	44,173	37,853	25,324,164	31,960	1,619,200	26,777	46,343	46,157	13,719,906	19,070

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
[1]1958 figures also include cottage cheese.

TABLE 1E. Finfish, Round (091211), Consumed, by Selected Industries: 1963 and 1958

Code	Industry	1963		1958	
		Quantity (tons)	Delivered cost ($1,000)	Quantity (tons)	Delivered cost ($1,000)
	Total	723,123	213,103	(NA)	183,253
2031	Canned and cured seafoods	476,827	126,929	(NA)	115,217
2036	Fresh or frozen packaged fish	246,296	86,174	(NA)	68,036

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not Available. (X) Not applicable.

TABLE 2A. Number of Animals Slaughtered in Establishments Classified in Industry 2011, by Divisions and States: 1963 and 1958

Division and State	Cattle (013913)		Calves (013923)		Sheep and lamb (013943)		Hogs (013933)	
	1963	1958	1963	1958	1963	1958	1963	1958
United States, total	23,748,619	[1]20,413,114	4,931,432	6,681,720	14,807,317	13,552,320	77,424,966	[2]63,283,010
New England	190,648	251,261	201,941	172,152	(D)	(D)	785,423	597,221
Maine	17,090	8,982	(D)	(D)	(D)	(D)	(D)	(D)
New Hampshire	(D)	(D)	(D)	(D)	-	-	(D)	(D)
Vermont	18,659	(D)	(D)	(D)	(D)	-	-	(D)
Massachusetts	41,639	84,069	(D)	119,345	-	(D)	(D)	(D)
Rhode Island	(D)	(D)	-	(D)	-	-	(D)	(D)
Connecticut	(D)	(D)	(D)	(D)	-	-	(D)	(D)
Middle Atlantic	1,334,287	1,337,152	1,303,986	809,971	1,944,297	2,018,310	5,858,664	5,386,076
New York	275,310	388,654	599,339	229,385	(D)	638,805	1,400,509	1,551,239
New Jersey	317,475	302,149	231,480	226,639	1,135,626	1,105,734	1,517,314	1,643,213
Pennsylvania	741,502	646,349	473,167	353,947	(D)	273,771	2,940,841	2,191,624
East North Central	4,100,506	4,871,786	1,570,291	2,256,709	1,681,925	1,576,157	18,886,053	14,656,400
Ohio	1,007,351	1,108,290	80,049	144,042	88,723	(D)	3,455,229	3,711,871
Indiana	650,446	568,291	94,446	133,578	(D)	(D)	4,407,593	2,749,107
Illinois	1,067,760	1,744,238	287,178	372,133	(D)	459,858	6,037,001	5,340,240
Michigan	539,373	604,948	303,810	427,528	654,825	549,521	1,745,049	854,448
Wisconsin	835,576	846,019	804,808	1,179,428	(D)	211,264	3,241,181	2,000,734
West North Central	9,406,831	7,338,689	410,280	1,102,204	4,081,227	4,477,496	33,854,390	27,887,314
Minnesota	1,400,889	1,285,786	(D)	365,725	813,394	788,578	7,668,328	4,249,729
Iowa	3,034,503	1,996,991	(D)	488,281	1,017,380	1,199,583	13,440,971	12,072,686
Missouri	1,173,693	1,012,779	(D)	105,869	(D)	422,264	2,902,206	3,350,336
North Dakota	(D)	85,818	-	(D)	(D)	(D)	(D)	(D)
South Dakota	(D)	347,984	(D)	(D)	(D)	598,523	(D)	1,899,107
Nebraska	2,089,561	1,778,460	(D)	26,218	1,020,358	940,203	4,506,574	3,845,350
Kansas	1,153,301	830,871	(D)	100,573	(D)	(D)	2,741,182	(D)
South Atlantic	964,978	1,115,825	446,457	551,265	(D)	(D)	5,838,982	5,373,192
Delaware	(D)	(D)	-	(D)	-	(D)	(D)	(D)
Maryland	107,003	148,604	21,074	56,338	35,988	45,996	582,066	870,904
District of Columbia	-	(D)	-	(D)	-	-	-	(D)
Virginia	172,867	131,963	(D)	234,471	(D)	2,127	2,179,103	1,646,436
West Virginia	(D)	47,100	3,307	6,211	(D)	(D)	(D)	120,443
North Carolina	97,364	102,214	10,634	8,610	-	(D)	953,061	661,905
South Carolina	63,012	101,800	(D)	27,582	(D)	(D)	353,813	412,366
Georgia	189,059	284,458	(D)	108,447	(D)	(D)	1,352,662	1,149,813
Florida	284,997	291,441	91,284	109,317	-	(D)	303,220	505,650
East South Central	1,032,227	1,050,690	276,671	574,738	249,064	266,626	5,548,467	3,667,276
Kentucky	150,697	205,458	7,036	13,960	(D)	(D)	1,445,031	1,161,506
Tennessee	397,159	463,481	(D)	290,730	(D)	(D)	2,532,987	1,625,239
Alabama	207,010	201,523	(D)	77,827	(D)	(D)	817,489	606,165
Mississippi	277,961	180,228	119,489	192,221	-	(D)	752,960	274,366
West South Central	1,684,174	1,520,219	481,750	783,538	1,956,922	917,807	2,573,436	2,409,318
Arkansas	104,846	101,588	14,079	24,155	-	(D)	245,099	194,378
Louisiana	108,957	189,957	80,225	50,150	-	(D)	117,581	69,185
Oklahoma	144,030	234,310	42,992	73,004	(D)	(D)	566,827	565,044
Texas	1,326,341	994,364	344,454	636,229	(D)	(D)	1,643,929	1,580,711
Mountain	2,029,018	1,363,512	26,997	48,174	2,652,327	1,493,061	1,565,841	1,334,418
Montana	60,417	54,664	(D)	1,261	5,121	(D)	241,478	176,385
Idaho	194,487	140,460	2,238	11,792	55,018	41,094	101,005	83,547
Wyoming	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	1,188,020	802,327	9,006	9,574	2,029,280	1,167,401	676,435	513,018
New Mexico	133,966	53,781	(D)	(D)	(D)	(D)	95,612	70,954
Arizona	209,584	120,112	(D)	11,129	(D)	(D)	(D)	(D)
Utah	206,644	152,381	7,726	9,202	519,917	(D)	275,298	323,830
Nevada	(D)	(D)	(D)	(D)	(D)	(D)	4,171	4,353
Pacific	3,005,350	2,425,868	213,059	382,969	2,181,751	2,416,546	2,513,710	2,486,248
Washington	373,981	305,666	21,717	11,195	(D)	174,892	651,011	524,792
Oregon	178,350	197,998	(D)	18,949	(D)	197,039	282,074	264,938
California	2,425,108	1,922,204	182,956	352,825	1,834,645	2,044,615	1,580,625	1,696,518
Alaska	-	-	-	-	-	-	-	-
Hawaii	27,911	-	(D)	-	(D)	-	-	-

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1] Includes 861,888 head of cattle reported by small slaughtering plants which did not report comparable cost or live weight detail, (see table 2B).

[2] Includes 514,455 head of hogs reported by small slaughtering plants which did not report comparable cost or live weight detail, (see table 2B).

TABLE 2B. Animals Slaughtered in Establishments Classified in Industry 2011, by Divisions and States: 1963 and 1958

Division and State	Cattle (013913)				Calves (013923)			
	1963		1958		1963		1958	
	Live weight (1,000 pounds)	Delivered cost ($1,000)	Live weight (1,000 pounds)	Delivered cost ($1,000)	Live weight (1,000 pounds)	Delivered cost ($1,000)	Live weight (1,000 pounds)	Delivered cost ($1,000)
United States, total	24,461,078	4,980,836	20,093,659	4,531,417	971,492	256,563	1,491,301	367,367
New England	190,782	29,919	168,138	32,222	14,682	3,615	21,015	4,009
Maine	16,511	2,507	4,463	846	(D)	(D)	(D)	(D)
New Hampshire	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Vermont	18,651	2,189	(D)	(D)	(D)	(D)	(D)	(D)
Massachusetts	41,950	7,196	59,826	12,706	(D)	(D)	13,842	2,933
Rhode Island	(D)	(D)	(D)	(D)	-	-	(D)	(D)
Connecticut	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Middle Atlantic	1,719,184	315,875	1,281,782	304,564	183,729	47,521	146,812	41,415
New York	262,339	51,878	269,314	56,449	64,445	16,030	48,335	13,405
New Jersey	549,230	99,522	371,184	107,179	58,500	15,444	53,314	16,052
Pennsylvania	907,615	164,475	641,284	140,936	60,784	16,047	45,163	11,958
East North Central	4,566,616	853,364	4,697,097	1,057,039	251,159	60,076	336,348	88,415
Ohio	1,401,709	213,066	968,866	225,046	16,739	4,022	23,538	6,269
Indiana	638,995	138,951	116,747	532,438	23,566	5,832	28,788	7,483
Illinois	1,144,701	246,857	1,785,060	429,514	53,654	13,956	70,305	21,258
Michigan	539,648	106,929	524,222	117,869	72,814	13,988	69,693	19,094
Wisconsin	841,563	147,561	886,511	166,502	84,386	22,278	144,024	34,311
West North Central	9,510,443	2,077,522	7,466,644	1,705,046	71,572	20,581	219,262	51,799
Minnesota	1,643,063	291,875	1,344,179	283,184	(D)	(D)	63,270	14,060
Iowa	3,095,587	664,978	2,108,091	505,769	(D)	(D)	76,234	19,809
Missouri	1,273,975	259,891	968,664	221,959	(D)	(D)	27,929	6,637
North Dakota	(D)	(D)	92,058	18,126	-	-	(D)	(D)
South Dakota	(D)	(D)	335,324	74,590	(D)	(D)	(D)	(D)
Nebraska	1,645,001	484,991	1,807,463	426,916	(D)	(D)	12,231	2,349
Kansas	1,262,319	247,787	810,865	174,502	(D)	(D)	35,839	8,189
South Atlantic	831,951	163,534	865,109	178,003	112,232	31,783	154,877	35,106
Delaware	(D)	(D)	(D)	(D)	-	-	(D)	(D)
Maryland	107,206	22,974	151,434	35,206	4,359	1,142	11,333	3,015
District of Columbia	-	-	(D)	(D)	-	-	(D)	(D)
Virginia	167,889	31,161	26,158	124,675	(D)	(D)	53,555	14,688
West Virginia	(D)	(D)	38,083	7,450	573	212	2,119	686
North Carolina	80,520	16,426	71,362	14,212	2,382	629	1,609	391
South Carolina	52,091	9,251	67,506	12,809	(D)	(D)	6,011	1,516
Georgia	140,515	28,665	208,009	38,984	(D)	(D)	38,815	7,732
Florida	235,263	46,262	195,853	41,777	25,317	7,831	33,379	7,069
East South Central	877,731	160,392	851,007	165,951	74,367	22,241	158,010	36,028
Kentucky	146,902	27,469	172,482	34,833	1,664	472	2,613	761
Tennessee	367,592	62,881	388,078	76,594	(D)	(D)	62,743	14,667
Alabama	139,648	33,248	148,388	28,485	(D)	(D)	34,249	7,670
Mississippi	223,589	36,794	142,059	26,039	29,104	11,106	58,405	12,930
West South Central	1,360,054	266,577	1,086,295	219,934	198,991	54,322	347,906	85,833
Arkansas	64,176	13,092	63,144	11,120	4,098	1,363	8,913	1,902
Louisiana	86,147	11,812	77,616	11,773	27,496	7,259	19,868	4,725
Oklahoma	129,412	21,288	178,270	38,640	18,667	4,928	34,154	7,839
Texas	1,080,319	220,385	767,265	158,401	148,730	40,772	284,971	71,367
Mountain	2,032,681	434,147	1,333,394	315,813	7,656	1,968	19,585	4,587
Montana	61,292	12,644	45,271	9,319	(D)	(D)	544	131
Idaho	198,633	41,642	125,056	28,273	557	114	3,541	837
Wyoming	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	1,217,232	268,495	838,619	206,943	3,289	624	3,843	790
New Mexico	128,547	25,081	44,568	10,150	(D)	(D)	(D)	(D)
Arizona	188,324	37,783	101,258	21,234	(D)	(D)	5,005	1,155
Utah	205,500	40,987	142,589	31,943	1,860	483	4,702	1,182
Nevada	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pacific	3,371,636	679,506	2,344,193	552,845	57,104	14,456	87,486	20,175
Washington	414,778	88,064	297,515	73,522	5,250	787	3,318	676
Oregon	188,580	37,033	179,155	39,729	(D)	(D)	9,875	1,106
California	2,742,142	548,965	1,867,523	439,594	49,519	13,073	74,293	18,393
Alaska	-	-	-	-	-	-	-	-
Hawaii	26,136	5,444	-	-	(D)	(D)	-	-

See footnotes at end of table.

TABLE 2B. Animals Slaughtered in Establishments Classified in Industry 2011, by Divisions and States: 1963 and 1958—Continued

Division and State	Sheep and lamb (013943)				Hogs (013933)			
	1963		1958		1963		1958	
	Live weight (1,000 pounds)	Delivered cost ($1,000)	Live weight (1,000 pounds)	Delivered cost ($1,000)	Live weight (1,000 pounds)	Delivered cost ($1,000)	Live weight (1,000 pounds)	Delivered cost ($1,000)
United States, total	1,421,502	284,347	1,348,326	285,392	18,194,867	2,822,256	15,599,467	3,128,598
New England	(D)	(D)	(D)	(D)	185,586	30,080	142,074	29,387
Maine	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
New Hampshire	-	-	-	-	(D)	(D)	(D)	(D)
Vermont	(D)	(D)	-	-	-	-	(D)	(D)
Massachusetts	-	-	(D)	(D)	(D)	(D)	(D)	(D)
Rhode Island	-	-	-	-	(D)	(D)	(D)	(D)
Connecticut	-	-	-	-	(D)	(D)	(D)	(D)
Middle Atlantic	171,758	39,480	189,942	45,666	1,023,850	212,642	1,136,130	242,912
New York	(D)	(D)	59,002	13,410	178,412	53,434	334,915	73,027
New Jersey	94,986	23,322	103,908	26,285	157,051	52,786	324,882	68,131
Pennsylvania	(D)	(D)	27,032	5,971	688,387	106,422	476,333	101,754
East North Central	169,112	31,289	154,260	30,997	4,602,935	692,980	3,972,820	800,303
Ohio	8,517	1,684	(D)	(D)	792,026	122,764	823,022	171,190
Indiana	(D)	(D)	(D)	(D)	1,068,023	164,034	937,995	196,730
Illinois	(D)	(D)	45,983	8,226	1,526,568	225,057	1,368,534	264,178
Michigan	64,939	11,712	54,104	11,743	408,554	63,326	188,497	38,776
Wisconsin	(D)	(D)	20,990	4,393	807,764	117,799	654,772	129,429
West North Central	405,022	77,193	458,134	93,935	8,394,332	1,240,415	7,025,419	1,365,387
Minnesota	81,158	15,724	78,774	16,350	1,629,458	252,566	1,266,923	245,156
Iowa	95,725	19,145	119,223	25,429	3,512,055	496,631	2,934,190	567,716
Missouri	(D)	(D)	41,025	8,558	685,445	106,244	788,733	157,777
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
South Dakota	(D)	(D)	61,611	13,118	(D)	(D)	487,308	91,508
Nebraska	104,796	19,134	104,415	20,011	1,151,470	174,579	957,146	186,740
Kansas	(D)	(D)	(D)	(D)	741,202	111,198	(D)	(D)
South Atlantic	(D)	(D)	(D)	(D)	1,305,503	201,602	1,083,507	221,041
Delaware	-	-	(D)	(D)	(D)	(D)	(D)	(D)
Maryland	3,234	602	4,129	899	144,270	20,484	187,880	40,080
District of Columbia	-	-	-	-	-	-	(D)	(D)
Virginia	(D)	(D)	189	30	494,795	77,738	342,159	71,316
West Virginia	(D)	(D)	(D)	(D)	(D)	(D)	25,180	5,273
North Carolina	-	-	(D)	(D)	218,865	33,924	130,269	27,092
South Carolina	(D)	(D)	(D)	(D)	81,138	12,114	71,641	15,611
Georgia	(D)	(D)	(D)	(D)	281,445	43,624	230,509	45,398
Florida	-	-	(D)	(D)	64,570	9,435	95,001	16,081
East South Central	20,035	3,815	23,375	4,254	1,206,516	195,914	824,498	166,759
Kentucky	(D)	(D)	(D)	(D)	272,640	52,613	266,763	54,957
Tennessee	(D)	(D)	(D)	(D)	603,754	88,519	358,109	72,470
Alabama	(D)	(D)	(D)	(D)	156,574	27,849	125,845	24,606
Mississippi	-	-	(D)	(D)	173,548	26,933	73,781	14,726
West South Central	166,598	36,173	81,748	16,493	596,775	94,145	551,040	113,285
Arkansas	-	-	(D)	(D)	58,852	9,122	32,968	6,771
Louisiana	-	-	(D)	(D)	21,770	4,629	16,966	3,301
Oklahoma	(D)	(D)	(D)	(D)	142,656	22,502	143,944	28,827
Texas	(D)	(D)	(D)	(D)	373,497	57,892	357,162	74,386
Mountain	263,079	52,448	151,882	32,881	303,526	55,366	297,435	61,069
Montana	330	86	(D)	(D)	56,242	9,044	39,053	8,218
Idaho	3,799	911	2,027	376	21,118	3,678	16,761	3,307
Wyoming	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	202,395	40,090	119,874	26,445	102,653	22,140	118,271	24,023
New Mexico	(D)	(D)	(D)	(D)	21,132	3,240	15,078	2,840
Arizona	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Utah	52,648	10,616	(D)	(D)	62,532	10,451	71,676	14,670
Nevada	(D)	(D)	(D)	(D)	853	145	1,056	210
Pacific	220,590	42,986	255,114	54,108	575,844	99,112	566,544	128,455
Washington	(D)	(D)	26,614	5,669	145,106	24,744	113,578	24,603
Oregon	(D)	(D)	19,145	3,890	69,453	10,727	56,127	12,103
California	190,471	36,947	209,355	44,549	361,285	63,641	396,839	91,749
Alaska	-	-	-	-	-	-	-	-
Hawaii	(D)	(D)	-	-	-	-	-	-

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

TABLE 2C. Poultry Killed in Establishments Classified in Industry 2015, by Divisions and States: 1963 and 1958

Division and States	Chickens and fowl (013311 and 013321)				Turkeys (013331)			
	1963		1958		1963		1958	
	Live weight (1,000 pounds)	Delivered cost ($1,000)	Live weight (1,000 pounds)	Delivered cost ($1,000)	Live weight (1,000 pounds)	Delivered cost ($1,000)	Live weight (1,000 pounds)	Delivered cost ($1,000)
UNITED STATES, TOTAL	6,792,559	1,026,230	4,544,030	825,670	1,197,589	272,004	802,968	188,465
New England	358,957	58,481	362,094	73,459	4,203	1,133	1,416	316
Maine	261,226	44,122	206,763	42,953	-	-	-	-
New Hampshire	(D)	(D)	-	-	(D)	(D)	-	-
Vermont	(D)	(D)	-	-	(D)	(D)	-	-
Massachusetts	45,663	6,743	40,099	8,081	(D)	(D)	(D)	(D)
Rhode Island	-	-	-	-	-	-	-	-
Connecticut	33,686	5,511	67,638	13,151	(D)	(D)	(D)	(D)
Middle Atlantic	377,211	62,413	296,920	58,741	27,176	7,090	16,563	4,357
New York	28,306	5,064	50,099	9,194	(D)	(D)	(D)	(D)
New Jersey	69,417	9,205	18,359	3,418	-	-	(D)	(D)
Pennsylvania	279,488	48,144	228,462	46,129	(D)	(D)	14,036	3,650
East North Central	192,752	29,194	286,907	55,101	140,415	32,098	69,848	16,051
Ohio	68,930	10,930	79,491	15,777	23,289	5,160	19,659	4,553
Indiana	56,385	8,396	87,852	16,347	41,239	8,788	31,041	7,239
Illinois	8,423	1,187	54,618	10,316	(D)	(D)	(D)	(D)
Michigan	6,913	1,040	16,471	2,854	(D)	(D)	5,173	1,103
Wisconsin	52,101	8,354	48,475	9,807	64,247	15,525	(D)	(D)
West North Central	255,186	33,488	279,435	46,360	460,629	109,059	297,687	70,906
Minnesota	84,884	10,557	43,197	7,164	251,689	62,522	142,252	33,272
Iowa	11,532	1,444	28,700	4,896	101,825	22,237	66,508	16,663
Missouri	124,576	17,914	141,364	22,986	47,336	10,108	44,941	10,483
North Dakota	(D)	(D)	-	-	10,963	2,782	-	-
South Dakota	4,315	390	-	-	(D)	(D)	-	-
Nebraska	28,364	2,965	40,008	6,291	32,058	7,588	17,833	4,129
Kansas	(D)	(D)	19,405	3,749	(D)	(D)	18,533	4,574
South Atlantic	2,737,988	420,078	1,757,696	319,016	115,509	25,527	99,324	24,850
Delaware	253,224	40,406	198,781	39,179	(D)	(D)	4,375	1,084
Maryland	466,336	69,112	218,239	40,955	(D)	(D)	(D)	(D)
District of Columbia	-	-	-	-	-	-	-	-
Virginia	172,159	27,566	144,571	27,849	71,985	15,200	59,202	15,117
West Virginia	(D)	(D)	23,085	4,149	(D)	(D)	(D)	(D)
North Carolina	629,111	97,919	345,641	67,476	29,292	6,954	22,305	5,343
South Carolina	(D)	(D)	31,076	5,564	(D)	(D)	(D)	(D)
Georgia	1,027,120	156,585	759,724	127,200	7,285	1,741	(D)	(D)
Florida	109,949	16,216	36,579	6,644	(D)	(D)	(D)	(D)
East South Central	1,272,494	187,215	675,215	114,429	24,383	5,092	6,342	1,349
Kentucky	50,661	7,639	(D)	(D)	(D)	(D)	(D)	(D)
Tennessee	161,741	23,585	(D)	(D)	(D)	(D)	(D)	(D)
Alabama	583,640	86,171	330,615	57,181	(D)	(D)	(D)	(D)
Mississippi	476,452	69,820	245,918	42,437	-	-	(D)	(D)
West South Central	1,265,429	186,567	663,713	117,540	112,685	24,579	75,969	18,183
Arkansas	639,437	94,152	296,229	49,726	36,710	8,357	(D)	(D)
Louisiana	157,284	22,734	34,624	5,900	(D)	(D)	-	-
Oklahoma	52,136	7,802	52,978	9,368	(D)	(D)	(D)	(D)
Texas	416,572	61,879	279,882	52,546	50,836	11,293	34,752	8,489
Mountain	21,140	3,239	14,205	2,593	32,811	7,099	31,280	7,933
Montana	-	-	-	-	-	-	-	-
Idaho	16,899	2,756	-	-	4,156	875	-	-
Wyoming	-	-	-	-	-	-	-	-
Colorado	(D)	(D)	-	-	(D)	(D)	-	-
New Mexico	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	-	-
Utah	(D)	(D)	8,126	1,389	(D)	(D)	(D)	(D)
Nevada	-	-	-	-	-	-	-	-
Pacific	311,402	45,555	207,845	38,431	279,778	60,327	204,537	44,520
Washington	71,391	11,633	53,998	9,122	(D)	(D)	7,342	2,146
Oregon	(D)	(D)	34,019	5,956	(D)	(D)	16,931	3,684
California	216,969	29,960	119,828	23,353	249,298	53,247	180,264	38,690
Alaska	-	-	-	-	-	-	-	-
Hawaii	(D)	(D)	-	-	-	-	-	-

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.

TABLE 2D. Selected Grains Consumed, by Divisions and States: 1963 and 1958

Division and State	Wheat (011371)				Corn (011321)			
	1963		1958		1963		1958	
	Quantity (1,000 bushels)	Delivered cost ($1,000)	Quantity (1,000 bushels)	Delivered cost ($1,000)	Quantity (1,000 bushels)	Delivered cost ($1,000)	Quantity (1,000 bushels)	Delivered cost ($1,000)
United States, total	628,859	1,393,351	592,003	1,248,177	632,030	860,259	508,724	682,624
New England	508	877	704	1,369	21,354	32,001	18,564	29,388
Maine	-	-	(D)	(D)	(D)	(D)	(D)	(D)
New Hampshire	(D)	(D)	(D)	(D)	2,134	3,389	1,719	2,655
Vermont	(D)	(D)	336	674	8,351	12,351	10,608	17,118
Massachusetts	(D)	(D)	149	295	2,703	3,815	5,483	8,245
Rhode Island	-	-	(D)	(D)	(D)	(D)	(D)	(D)
Connecticut	-	-	(D)	(D)	(D)	(D)	217	330
Middle Atlantic	75,002	182,343	77,786	183,617	46,720	71,222	47,468	71,199
New York	67,894	167,936	69,760	168,532	20,069	30,918	24,568	36,878
New Jersey	835	1,768	1,791	2,967	6,484	10,561	7,857	12,435
Pennsylvania	6,273	12,639	6,235	12,118	20,167	29,743	15,043	21,886
East North Central	112,271	230,471	97,868	205,614	203,810	276,430	177,873	218,202
Ohio	27,084	55,344	24,831	52,221	18,671	20,569	20,525	28,376
Indiana	(D)	(D)	(D)	(D)	44,467	65,167	35,010	44,876
Illinois	44,547	94,444	38,068	79,364	119,198	160,096	102,889	121,315
Michigan	20,490	38,642	20,224	42,711	3,991	6,553	7,343	10,375
Wisconsin	(D)	(D)	(D)	(D)	17,483	24,045	12,106	13,260
West North Central	253,828	565,913	225,981	474,999	121,747	152,883	98,391	119,200
Minnesota	59,563	139,848	56,387	131,068	5,296	6,599	5,986	7,017
Iowa	16,144	36,712	13,105	27,550	60,258	76,033	51,926	63,182
Missouri	52,639	115,829	50,542	104,058	37,871	47,157	32,698	40,277
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
South Dakota	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	17,546	38,499	17,888	35,065	12,916	16,776	3,508	4,123
Kansas	99,577	216,141	82,113	164,417	3,354	4,080	3,611	3,875
South Atlantic	14,122	29,111	16,365	31,938	98,063	137,112	72,977	110,349
Delaware	(D)	(D)	(D)	(D)	11,235	16,345	8,895	12,712
Maryland	1,303	2,636	2,519	5,155	9,881	14,525	7,651	11,666
District of Columbia	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Virginia	3,494	7,513	3,771	6,509	8,249	11,772	8,701	13,206
West Virginia	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
North Carolina	4,094	8,848	5,431	11,263	25,230	34,708	17,902	26,305
South Carolina	848	1,644	1,029	2,107	2,985	4,228	2,086	3,031
Georgia	3,717	7,151	2,473	5,041	30,947	42,492	23,265	36,872
Florida	83	168	81	163	7,597	10,308	3,588	5,271
East South Central	24,986	55,463	20,714	46,824	70,596	93,254	48,778	69,196
Kentucky	(D)	(D)	(D)	(D)	20,990	25,877	22,016	30,525
Tennessee	18,413	40,457	10,501	24,720	17,417	24,045	12,526	17,974
Alabama	(D)	(D)	(D)	(D)	23,755	31,772	9,996	14,829
Mississippi	(D)	(D)	(D)	(D)	8,434	11,560	4,240	5,868
West South Central	57,934	126,214	55,959	116,133	44,736	58,596	25,385	34,756
Arkansas	(D)	(D)	(D)	(D)	15,478	20,309	7,852	9,896
Louisiana	(D)	(D)	(D)	(D)	5,485	7,290	3,564	4,877
Oklahoma	19,269	41,990	21,664	42,818	4,003	5,375	2,736	3,485
Texas	38,497	84,018	34,155	73,123	19,770	25,622	11,233	16,498
Mountain	35,656	76,376	38,548	64,930	5,158	7,282	3,851	5,706
Montana	6,130	12,609	5,683	12,358	59	105	161	269
Idaho	(D)	(D)	(D)	(D)	(D)	(D)	96	155
Wyoming	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	(D)	(D)	(D)	(D)	2,312	2,934	1,654	1,986
New Mexico	1,063	2,086	543	882	(D)	(D)	(D)	(D)
Arizona	(D)	(D)	(D)	(D)	321	530	383	633
Utah	11,868	27,189	12,079	23,823	1,721	2,685	1,475	2,540
Nevada	-	-	-	-	-	-	-	-
Pacific	54,552	126,583	58,078	122,753	19,846	31,479	15,437	24,628
Washington	24,020	55,853	22,268	50,299	3,790	5,635	2,430	3,721
Oregon	(D)	(D)	22,229	41,146	(D)	(D)	2,216	4,078
California	22,194	51,920	13,581	31,308	12,525	20,176	10,791	16,829
Alaska	-	-	-	-	-	-	-	-
Hawaii	(D)	(D)	-	-	(D)	(D)	-	-

See footnotes at end of table.

TABLE 2D. Selected Grains Consumed, by Divisions and States: 1963 and 1958—Continued

Division and State	Oats (011331)				Barley (011311)			
	1963		1958		1963		1958	
	Quantity (1,000 bushels)	Delivered cost ($1,000)	Quantity (1,000 bushels)	Delivered cost ($1,000)	Quantity (1,000 bushels)	Delivered cost ($1,000)	Quantity (1,000 bushels)	Delivered cost ($1,000)
United States, total	99,556	81,753	137,368	107,240	125,310	166,148	120,865	161,650
New England	3,934	4,002	6,860	6,253	664	846	778	1,049
Maine	(D)	(D)	(D)	(D)	-	-	(D)	(D)
New Hampshire	293	265	(D)	(D)	(D)	(D)	(D)	(D)
Vermont	3,076	3,214	5,302	4,919	460	628	(D)	(D)
Massachusetts	210	201	571	495	(D)	(D)	(D)	(D)
Rhode Island	(D)	(D)	(D)	(D)	-	-	-	-
Connecticut	(D)	(D)	(D)	(D)	-	-	-	-
Middle Atlantic	11,789	10,019	18,586	15,731	9,469	13,278	10,150	13,646
New York	8,406	6,993	12,009	10,469	6,788	9,684	7,449	10,199
New Jersey	511	461	1,382	966	1,267	1,792	1,545	2,174
Pennsylvania	2,872	2,565	5,195	4,296	1,414	1,802	1,156	1,273
East North Central	9,974	8,317	17,595	13,679	51,713	74,818	56,824	81,290
Ohio	5,499	4,635	8,546	7,089	(D)	(D)	939	1,264
Indiana	978	826	1,324	1,195	(D)	(D)	(D)	(D)
Illinois	1,730	1,300	3,919	2,977	13,281	18,416	11,738	16,571
Michigan	572	720	202	137	(D)	(D)	(D)	(D)
Wisconsin	1,195	836	3,604	2,281	35,209	52,366	40,933	58,763
West North Central	39,205	29,297	46,991	33,116	23,467	29,628	20,256	28,523
Minnesota	6,741	4,703	7,402	4,875	18,273	22,843	14,817	21,911
Iowa	24,037	18,359	29,570	21,308	(D)	(D)	(D)	(D)
Missouri	6,114	4,622	8,748	6,091	3,509	5,124	3,963	5,195
North Dakota	292	210	(D)	(D)	646	508	(D)	(D)
South Dakota	877	579	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	571	392	453	347	(D)	(D)	(D)	(D)
Kansas	573	432	583	397	262	295	204	215
South Atlantic	9,524	8,058	14,069	12,417	1,238	1,563	1,842	2,099
Delaware	476	405	(D)	(D)	147	152	252	265
Maryland	1,121	872	1,285	1,277	215	462	293	327
District of Columbia	(D)	(D)	(D)	(D)	-	-	(D)	(D)
Virginia	491	438	1,365	1,175	284	264	365	405
West Virginia	(D)	(D)	(D)	(D)	-	-	(D)	(D)
North Carolina	2,591	2,260	3,263	2,810	300	304	512	681
South Carolina	622	517	956	785	168	179	(D)	(D)
Georgia	2,568	2,119	3,732	3,338	(D)	(D)	304	278
Florida	1,579	1,384	2,553	2,331	(D)	(D)	(D)	(D)
East South Central	5,290	4,361	7,196	5,933	1,078	1,149	589	624
Kentucky	947	755	840	646	25	75	(D)	(D)
Tennessee	1,432	1,170	2,616	2,043	782	838	473	491
Alabama	1,665	1,406	1,861	1,771	98	85	(D)	(D)
Mississippi	1,246	1,030	1,879	1,473	173	151	(D)	(D)
West South Central	10,379	8,839	14,430	10,822	4,179	4,519	2,551	2,508
Arkansas	666	558	2,225	1,642	(D)	(D)	(D)	(D)
Louisiana	1,462	1,210	2,019	1,607	(D)	(D)	(D)	(D)
Oklahoma	1,920	1,629	2,078	1,435	1,876	1,934	610	547
Texas	6,331	5,442	8,108	6,138	1,804	1,999	1,332	1,345
Mountain	1,460	1,238	2,014	1,528	8,956	11,776	5,249	5,592
Montana	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	37	30	(D)	(D)	767	797	424	388
Wyoming	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	765	605	634	553	(D)	(D)	870	739
New Mexico	149	132	292	144	189	228	260	300
Arizona	(D)	(D)	295	243	1,397	1,534	(D)	(D)
Utah	(D)	(D)	(D)	(D)	2,052	2,335	1,885	2,262
Nevada	-	-	-	-	-	-	(D)	(D)
Pacific	8,001	7,622	9,627	7,761	24,546	28,571	22,626	26,319
Washington	(D)	(D)	1,567	1,446	4,410	5,293	3,869	5,253
Oregon	(D)	(D)	2,553	2,162	(D)	(D)	3,228	2,787
California	4,642	4,515	5,507	4,153	17,619	20,475	15,529	18,279
Alaska	-	-	-	-	-	-	-	-
Hawaii	(D)	(D)	-	-	(D)	(D)	-	-

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

TABLE 2E. Wheat Flour Consumed, by Divisions and States: 1963 and 1958

Division and State	Wheat flour (except semolina and durum flour) (204101 and 204119)			
	1963		1958	
	Quantity (1,000 cwt.)	Delivered cost ($1,000)	Quantity (1,000 cwt.)	Delivered cost ($1,000)
UNITED STATES, TOTAL	148,346	849,535	130,101	750,469
New England	6,846	42,471	6,775	43,552
Maine	838	5,686	707	4,490
New Hampshire	255	1,646	271	1,708
Vermont	320	1,634	197	1,193
Massachusetts	3,282	19,788	3,787	24,484
Rhode Island	824	5,314	704	4,526
Connecticut	1,327	8,403	1,106	7,151
Middle Atlantic	33,839	196,556	28,107	168,074
New York	12,729	74,228	12,972	77,971
New Jersey	8,668	50,180	4,909	29,173
Pennsylvania	12,442	72,148	10,225	60,930
East North Central	35,234	193,995	32,433	178,760
Ohio	7,851	45,938	8,345	47,231
Indiana	4,206	23,733	3,410	18,796
Illinois	14,601	77,881	13,340	70,365
Michigan	6,089	32,829	5,130	30,122
Wisconsin	2,487	13,614	2,208	12,246
West North Central	12,278	65,750	11,448	59,865
Minnesota	2,602	14,635	1,406	7,783
Iowa	2,337	12,307	1,737	9,547
Missouri	4,050	21,835	4,600	23,925
North Dakota	(D)	(D)	352	1,890
South Dakota	(D)	(D)	361	2,116
Nebraska	1,194	6,285	1,534	6,983
Kansas	1,494	7,688	1,458	7,621
South Atlantic	19,812	119,727	16,361	97,559
Delaware	424	2,552	245	1,520
Maryland	2,689	16,353	2,493	14,720
District of Columbia	975	5,998	953	5,749
Virginia	2,287	13,454	2,115	12,439
West Virginia	1,122	7,361	1,211	7,217
North Carolina	3,575	21,108	2,761	16,694
South Carolina	821	4,985	836	5,011
Georgia	4,597	26,723	3,659	21,156
Florida	3,322	21,193	2,088	13,053
East South Central	8,092	46,033	7,398	40,700
Kentucky	2,077	11,990	1,983	11,122
Tennessee	3,452	19,744	2,859	15,088
Alabama	1,658	9,269	1,761	10,026
Mississippi	905	5,030	794	4,464
West South Central	10,729	64,505	9,896	56,718
Arkansas	965	4,681	858	4,740
Louisiana	1,935	11,923	1,613	10,220
Oklahoma	1,582	8,448	1,040	5,651
Texas	6,247	39,453	6,384	36,107
Mountain	3,817	21,777	3,619	20,181
Montana	346	1,867	289	1,622
Idaho	196	1,157	217	1,202
Wyoming	46	247	(D)	(D)
Colorado	1,578	8,523	1,335	7,038
New Mexico	386	2,268	338	2,059
Arizona	586	3,713	694	4,090
Utah	540	3,138	632	3,464
Nevada	139	864	(D)	(D)
Pacific	17,699	98,721	14,064	85,060
Washington	2,431	9,879	1,433	8,243
Oregon	2,181	10,322	1,482	8,174
California	12,739	76,027	11,149	68,643
Alaska	56	403	-	-
Hawaii	292	2,090	-	-

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

TABLE 2F. Refined Sugar (Cane-Beet) and Shortening Consumed, by Divisions and States: 1963 and 1958

Division and State	Sugar (cane and beet) (206011)				Shortening (209611)			
	1963		1958		1963		1958	
	Quantity pounds (cwt.)	Delivered cost ($1,000)	Quantity pounds (cwt.)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)
United States, total	109,638,108	1,094,085	88,135,417	791,951	491,840	67,696	446,930	78,693
New England	4,661,951	52,585	3,927,962	35,840	26,319	3,565	27,190	4,802
Maine	360,914	3,684	269,307	2,540	2,298	305	2,756	502
New Hampshire	114,933	1,293	95,708	854	(D)	(D)	2,182	397
Vermont	148,874	1,586	147,965	1,345	(D)	(D)	303	53
Massachusetts	3,143,923	36,363	2,773,993	25,339	17,089	2,299	16,880	2,968
Rhode Island	413,627	4,220	190,708	1,627	1,799	246	2,760	472
Connecticut	479,680	5,439	450,281	4,135	4,899	676	2,309	410
Middle Atlantic	26,688,460	267,996	22,211,306	198,650	131,872	18,842	113,270	19,233
New York	11,411,802	114,162	10,248,422	92,025	48,457	7,642	53,843	9,140
New Jersey	6,753,590	65,712	4,643,203	40,648	47,335	6,221	24,854	4,030
Pennsylvania	8,523,068	88,122	7,319,681	65,977	36,080	4,979	34,573	6,063
East North Central	30,444,456	296,773	24,796,425	222,772	113,420	15,561	105,795	18,809
Ohio	5,514,626	55,681	4,962,840	45,612	27,128	3,612	31,259	5,541
Indiana	3,191,987	30,850	2,458,531	22,719	6,365	807	5,446	950
Illinois	14,764,510	141,961	11,797,491	104,091	50,593	7,499	43,106	7,750
Michigan	4,554,386	44,972	3,722,646	33,603	23,001	2,769	19,607	3,379
Wisconsin	2,418,947	23,309	1,854,917	16,747	6,333	874	6,377	1,189
West North Central	7,257,328	70,658	5,418,603	48,960	31,705	4,117	36,590	6,137
Minnesota	1,684,553	17,215	805,836	7,562	3,145	434	4,150	743
Iowa	1,337,538	12,648	1,059,006	9,462	4,560	584	6,906	985
Missouri	2,402,695	23,902	2,104,730	18,784	17,152	2,375	16,474	2,866
North Dakota	92,521	850	86,685	812	(D)	(D)	1,017	179
South Dakota	101,682	1,013	162,902	1,535	(D)	(D)	951	176
Nebraska	837,631	8,167	730,429	6,472	1,705	237	3,355	562
Kansas	800,708	6,863	469,015	4,333	4,706	419	3,737	626
South Atlantic	12,898,418	130,699	9,452,437	84,527	68,023	9,431	52,087	8,868
Delaware	100,971	996	71,041	593	(D)	(D)	(D)	(D)
Maryland	2,807,971	28,810	2,152,504	18,606	8,737	1,170	5,836	1,072
District of Columbia	198,580	1,964	215,183	1,999	(D)	(D)	1,898	345
Virginia	1,371,078	14,675	1,080,132	9,683	11,920	1,645	8,798	1,406
West Virginia	396,564	4,209	377,453	3,470	1,781	281	1,824	330
North Carolina	1,650,267	17,053	1,230,558	11,715	10,124	1,395	8,902	1,592
South Carolina	438,386	4,600	430,637	3,914	1,905	280	(D)	(D)
Georgia	3,991,750	38,463	2,774,920	24,304	22,442	3,164	16,562	2,649
Florida	1,942,851	19,929	1,120,009	10,243	8,340	1,118	6,376	1,143
East South Central	3,548,397	42,044	4,114,662	37,175	31,045	3,905	29,489	5,739
Kentucky	1,199,395	11,546	1,684,973	15,612	8,175	975	7,825	1,423
Tennessee	1,736,095	16,151	1,236,342	11,038	14,688	1,820	12,940	2,328
Alabama	101,104	10,104	853,288	7,537	5,339	726	6,179	1,533
Mississippi	511,803	4,243	340,059	2,988	2,843	384	2,545	455
West South Central	7,322,065	70,076	5,717,505	49,953	27,593	3,699	27,710	4,890
Arkansas	468,376	4,272	340,181	3,024	2,440	351	2,398	429
Louisiana	1,679,479	15,853	1,389,499	11,737	6,510	890	6,828	1,209
Oklahoma	589,283	6,077	377,493	3,478	5,000	627	2,862	465
Texas	4,584,927	43,874	3,610,332	31,714	13,643	1,831	15,622	2,787
Mountain	1,562,117	15,478	1,266,384	12,150	11,376	1,519	8,634	1,587
Montana	102,361	927	81,042	752	(D)	(D)	1,401	259
Idaho	105,934	1,063	154,280	1,495	246	40	437	87
Wyoming	23,066	241	23,725	226	(D)	(D)	(D)	(D)
Colorado	651,110	6,430	508,268	4,915	7,144	920	3,471	616
New Mexico	116,940	1,115	81,407	791	1,231	155	969	176
Arizona	241,174	2,507	187,736	1,755	1,246	186	1,504	280
Utah	282,166	2,789	210,324	2,035	568	89	698	137
Nevada	39,366	406	19,602	181	(D)	(D)	(D)	(D)
Pacific	15,254,916	147,776	11,230,133	101,924	50,487	7,057	46,165	8,628
Washington	1,263,814	12,316	955,954	9,109	3,425	501	4,014	789
Oregon	866,051	8,445	709,183	6,436	4,125	606	3,113	614
California	12,640,487	122,141	9,564,996	86,379	41,725	5,758	39,038	7,225
Alaska	9,187	119	-	-	(D)	(D)	-	-
Hawaii	475,377	4,755	-	-	(D)	(D)	-	-

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

TABLE 2G. Green Coffee (012285) Consumed, by Divisions and States: 1963 and 1958

Division and State	1963		1958	
	Quantity (cwt.)	Value ($1,000)	Quantity (cwt.)	Value ($1,000)
United States, total	27,537,502	941,591	24,758,454	1,243,553
New England	321,003	11,196	555,737	28,352
Massachusetts	(D)	(D)	539,002	27,379
Connecticut	(D)	(D)	16,735	973
Middle Atlantic	9,748,157	316,717	8,847,746	445,720
New York	2,055,218	74,719	2,565,837	129,369
New Jersey	7,503,974	235,731	5,951,232	299,569
Pennsylvania	188,965	6,267	330,677	16,782
East North Central	2,638,028	90,726	2,956,692	145,850
Ohio	859,293	29,303	965,468	48,124
Illinois	1,593,728	54,720	1,875,126	91,966
Michigan	(D)	(D)	96,638	4,763
Wisconsin	(D)	(D)	-	-
West North Central	2,023,926	74,236	1,940,799	98,759
Minnesota	270,357	8,862	149,940	7,675
Iowa	(D)	(D)	1,225,337	58,284
Missouri	982,298	34,986	-	-
Nebraska	(D)	(D)	(D)	(D)
Kansas	(D)	(D)	(D)	(D)
South Atlantic	2,363,235	80,013	2,050,162	102,296
Maryland	(D)	(D)	(D)	(D)
District of Columbia	(D)	(D)	205,684	10,576
South Atlantic--Con.				
Virginia	76,369	3,087	112,995	5,628
North Carolina	(D)	(D)	-	-
South Carolina	(D)	(D)	-	-
Georgia	66,603	2,142	113,714	5,241
Florida	(D)	(D)	(D)	(D)
East South Central	460,465	18,104	440,719	23,076
Kentucky	(D)	(D)	-	-
Tennessee	(D)	(D)	294,532	16,260
Alabama	(D)	(D)	(D)	(D)
West South Central	5,267,314	186,695	4,223,657	209,228
Arkansas	(D)	(D)	-	-
Louisiana	(D)	(D)	1,149,666	53,518
Oklahoma	(D)	(D)	-	-
Texas	3,399,671	120,584	2,895,821	147,300
Mountain	29,849	962	46,773	2,388
Colorado	(D)	(D)	-	-
New Mexico	(D)	(D)	-	-
Utah	(D)	(D)	-	-
Pacific	4,685,525	162,942	3,696,169	187,884
Washington	(D)	(D)	63,513	3,055
Oregon	(D)	(D)	339,329	16,132
California	4,299,988	149,747	3,293,327	168,697

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available (X) Not applicable.

TABLE 2H. Finfish, Round (091211) Consumed, by Divisions and States: 1963 and 1958

Division and State	Delivered cost ($1,000)	
	1963	1958
United States, total	213,103	183,253
New England	43,260	37,033
Maine	3,146	3,238
Massachusetts	40,114	33,795
Middle Atlantic	24,764	19,048
New York	17,771	16,562
New Jersey	(D)	(D)
Pennsylvania	(D)	(D)
North Central	13,996	8,911
Ohio	7,356	(D)
Illinois	2,235	2,290
Michigan	(D)	(D)
Wisconsin	(D)	(D)
Minnesota	(D)	(D)
Missouri	(D)	-
South Atlantic	9,421	8,463
Maryland	4,174	3,248
Virginia	1,105	4,334
North Carolina	(D)	-
South Carolina	(D)	-
Georgia	(D)	-
Florida	1,283	(D)
South Central	4,608	1,392
Alabama	803	-
Mississippi	(D)	(D)
Louisiana	(D)	1,019
Texas	3,613	(D)
Pacific	117,054	109,402
Washington	20,421	27,325
Oregon	(D)	13,248
California	62,750	68,829
Alaska	18,822	-
Hawaii	(D)	-

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

TABLE 21. Dairy Products Consumed, by Divisions and States: 1963 and 1958

(The figures below represent purchased material (or materials transferred from other plants of same company) and exclude materials made and consumed in same plant)

Division and State	Cheese, other than cottage (202210)[1]				Ice cream and ice milk mix (202401)				Skim milk (fluid) (202612)			
	1963		1958		1963		1958		1963		1958	
	Quantity (cwt.)	Delivered cost ($1,000)	Quantity (cwt.)	Delivered cost ($1,000)	Quantity (1,000 gallons)	Delivered cost ($1,000)	Quantity (1,000 gallons)	Delivered cost ($1,000)	Quantity (cwt.)	Delivered cost ($1,000)	Quantity (cwt.)	Delivered cost ($1,000)
United States, total	8,616,940	317,279	7,102,733	220,841	107,787	94,197	108,934	113,424	94,956,269	93,361	71,198,182	69,509
New England	6,140	(D)	109,756	1,871	6,856	7,549	8,882	9,390	1,164,966	1,698	1,052,556	1,861
Maine	(D)	(D)	11,895	167	392	399	585	635	(D)	(D)	(D)	(D)
New Hampshire	(D)	(D)	(D)	(D)	324	392	434	325	19,793	47	23,248	43
Vermont	(D)	(D)	10,581	240	168	208	161	184	567,226	748	(D)	(D)
Massachusetts	(D)	(D)	45,109	717	4,428	5,338	4,934	5,213	325,880	521	306,193	919
Rhode Island	(D)	(D)	(D)	(D)	195	263	200	191	38,072	35	(D)	(D)
Connecticut	(D)	(D)	35,424	626	1,349	949	2,568	2,842	155,785	180	98,299	195
Middle Atlantic	1,140,340	42,499	917,078	22,020	9,590	9,169	22,486	27,314	10,175,026	12,754	8,265,809	9,898
New York	(D)	(D)	460,672	10,253	5,505	5,385	7,018	12,280	7,608,387	9,665	6,478,879	7,777
New Jersey	(D)	(D)	(D)	(D)	1,644	1,590	1,535	2,017	915,944	1,336	355,841	607
Pennsylvania	942,790	35,471	(D)	(D)	2,441	2,194	13,933	13,017	1,650,695	1,753	1,431,089	1,514
East North Central	3,272,772	120,578	2,395,552	83,846	29,918	27,573	28,230	31,248	23,445,383	22,603	11,964,083	11,933
Ohio	(D)	(D)	143,599	4,236	5,334	4,433	3,768	3,392	1,378,376	1,345	708,864	908
Indiana	(D)	(D)	49,309	1,255	2,498	2,340	1,912	1,912	60,063	65	250,453	306
Illinois	311,140	11,258	366,971	11,830	3,358	4,162	4,969	5,540	8,920,875	8,765	1,990,648	2,100
Michigan	(D)	(D)	85,563	1,573	10,415	8,684	9,349	10,996	435,420	779	297,658	359
Wisconsin	2,775,168	102,810	1,750,110	64,952	8,313	7,954	8,232	9,408	12,650,649	11,649	8,716,460	8,260
West North Central	3,049,920	112,776	2,189,738	75,096	14,134	11,942	12,345	10,852	49,713,027	42,826	44,328,742	39,159
Minnesota	(D)	(D)	(D)	(D)	4,589	4,165	3,346	3,228	41,870,483	35,833	38,044,714	33,490
Iowa	(D)	(D)	9,628	147	3,089	916	2,285	1,356	6,618,014	5,696	3,111,661	2,791
Missouri	1,492,430	55,089	1,276,424	44,585	1,625	1,350	2,200	2,113	93,115	114	(D)	(D)
North Dakota	(D)	(D)	(D)	(D)	182	185	370	433	(D)	(D)	(D)	(D)
South Dakota	(D)	(D)	3,224	50	853	756	711	706	575,791	690	(D)	(D)
Nebraska	(D)	(D)	(D)	(D)	(D)	(D)	2,078	1,753	431,412	419	(D)	(D)
Kansas	26,590	991	(D)	(D)	2,322	2,075	1,355	1,263	115,000	60	30,983	29
South Atlantic	(D)	(D)	675,792	22,195	8,019	7,651	11,088	11,085	1,643,449	2,458	540,562	699
Delaware	-	-	(D)	(D)	58	16	(D)	(D)	(D)	(D)	(D)	(D)
Maryland	(D)	(D)	22,481	296	1,660	1,761	1,268	1,528	891,621	771	148,688	230
District of Columbia	-	-	(D)	(D)	-	-	(D)	(D)	(D)	(D)	(D)	(D)
Virginia	-	-	(D)	(D)	2,458	2,598	2,149	2,273	235,196	471	(D)	(D)
West Virginia	-	-	3,857	63	1,080	632	619	442	(D)	(D)	(D)	(D)
North Carolina	(D)	(D)	(D)	(D)	1,813	1,593	3,896	3,265	26,637	49	(D)	(D)
South Carolina	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	36,178	103	-	-
Georgia	(D)	(D)	(D)	(D)	-	-	967	714	(D)	(D)	(D)	(D)
Florida	-	-	42,647	943	591	760	1,558	2,086	155,455	490	(D)	(D)
East South Central	(D)	(D)	53,845	1,544	6,087	5,222	4,576	4,180	521,244	982	561,493	424
Kentucky	(D)	(D)	7,170	126	1,329	1,448	1,160	927	63,333	120	(D)	(D)
Tennessee	(D)	(D)	(D)	(D)	2,072	1,814	2,095	1,996	320,098	647	463,238	292
Alabama	(D)	(D)	7,708	116	2,588	1,870	966	880	94,346	45	(D)	(D)
Mississippi	-	-	(D)	(D)	98	90	355	377	(D)	(D)	(D)	(D)
West South Central	19,480	610	176,164	3,217	5,056	4,275	6,225	5,023	883,067	1,239	191,618	242
Arkansas	(D)	(D)	(D)	(D)	235	297	731	643	(D)	(D)	-	-
Louisiana	-	-	(D)	(D)	775	737	1,184	775	437,341	749	7,479	13
Oklahoma	(D)	(D)	(D)	(D)	871	634	498	436	95,284	93	(D)	(D)
Texas	(D)	(D)	70,908	1,115	3,175	2,607	3,812	3,169	348,853	395	(D)	(D)
Mountain	(D)	(D)	125,951	3,379	3,598	2,973	5,511	4,870	630,154	828	198,029	248
Montana	(D)	(D)	16,350	455	706	674	926	922	77,030	87	(D)	(D)
Idaho	(D)	(D)	(D)	(D)	192	189	728	250	217,557	284	(D)	(D)
Wyoming	(D)	(D)	(D)	(D)	69	70	138	96	-	-	(D)	(D)
Colorado	(D)	(D)	11,716	147	257	212	1,645	1,427	(D)	(D)	(D)	(D)
New Mexico	-	-	17,621	282	-	-	552	498	-	-	(D)	(D)
Arizona	-	-	(D)	(D)	1,447	826	(D)	(D)	(D)	(D)	-	-
Utah	(D)	(D)	(D)	(D)	358	363	555	716	74,851	72	(D)	(D)
Nevada	-	-	(D)	(D)	(D)	(D)	(D)	(D)	11,281	15	(D)	(D)
Pacific	104,208	2,784	458,857	7,673	24,529	17,843	9,591	9,462	6,779,953	7,973	4,095,290	5,045
Washington	1,990	96	39,419	1,211	1,586	1,614	986	1,152	(D)	(D)	580,885	733
Oregon	15,570	49	3,915	120	2,635	1,616	332	377	391,670	351	122,740	190
California	86,648	2,639	415,523	6,342	19,786	14,223	8,273	7,933	5,992,985	7,111	3,391,665	4,122
Alaska	-	-	-	-	(D)	(D)	-	-	-	-	-	-
Hawaii	-	-	-	-	516	381	-	-	(D)	(D)	-	-

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1] 1958 figures also include cottage cheese.

TEXTILES

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TEXTILES

This section includes data on materials primarily consumed by establishments classified in Major Group 22, Textile Mill Products, and for broad woven fabrics primarily consumed by establishments classified in Major Group 23, Apparel and Related Products, as well as other industries consuming significant quantities of piece goods.

FIBER CONSUMPTION

The fiber consumption data shown in the table 1 parts are based on information collected in the Census of Manufactures. All industries consuming significant amounts of fiber reported these data, except for Industry Group 225, Knitting Mills, and Group 227, Floor Covering Mills. Detailed consumption figures are published in the monthly Current Industrial Reports Series, M22D, Consumption on the Woolen and Worsted Systems, and M22P, Cotton, Man-Made Fiber Staple, and Linters; Consumption, Stocks, and Spindle Activity.

BROAD WOVEN FABRICS (PIECE GOODS)

The statistics shown in table 2, in the column headed, "Reported", were previously published in the individual chapters in Volume II, Industry Statistics, table 7, "Materials Consumed by Kind." In each of the individual table 7's, detailed materials data were collected for piece goods and other materials. However, in each industry a portion of the total cost of materials was not specified by kind. This cost that was not specified by kind represented the total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and the total cost of materials reported for those establishments which failed to report cost of individual materials on the "standard forms." The "cost of materials not specified by kind" would, therefore, include the quantity and cost of piece goods consumed by a number of establishments.

Those cost figures for the materials "not specified by kind" were allocated to the piece goods costs in the same proportion that piece goods represented to the total cost of materials reported in detail. Quantity data were then estimated using the same unit value as that reported by other establishments in the industry. The combined total of the amounts reported and the amounts estimated are shown in the columns headed "Estimated Total."

For some industries, the quantity data for relatively small costs of fabrics were not available. In such cases, the quantities were estimated based on the unit value reported by a closely related industry.

The fabric consumption data for the Rubber Industries 3011, 3021, 3031, and 3069 were collected in thousands of pounds instead of thousands of yards as collected for all other industries shown in this table. A satisfactory conversion factor was not available for converting these pound figures to yards. Therefore, the quantities in pounds were added to the quantities in yards reported by the other industries in order to obtain some approximate total figures. The resulting figures are consequently understated because the fabric consumed probably exceeded one yard per pound.

The materials consumed inquiries for some industries requested separate data by type of fiber, such as cotton fabrics, rayon fabrics, etc. For other industries, the breakdown was by kind of fabric, such as upholstery material, bed ticking, etc. Because of this varying collection measure it is not possible to obtain a breakdown of the total fabric consumption in all industries by type of fiber or fabric consumed.

TABLE 1A. Consumption of Raw Cotton, by Industry and Geographic Areas: 1963

Geographic area	All industries, total	Weaving mills, cotton (SIC 2211)	Weaving mills, synthetics (SIC 2221)	Yarn mills, except wool (SIC 2281)	Thread mills (SIC 2284)	Padding and upholstery filling (SIC 2293)	Tire cord and fabric (SIC 2296)	Other industries[1]
United States, total	8,467,377	6,149,437	193,939	1,899,157	74,695	13,930	104,423	31,796
New England division	199,746	175,254	(b)	(a)	(c)	(b)	-	(b)
Maine	(d)	(d)	-	-	-	-	-	-
New Hampshire	(d)	(d)	-	-	-	-	-	(a)
Massachusetts	(d)	(d)	(b)	(a)	(a)	(b)	-	(a)
Rhode Island	(c)	(b)	(a)	-	(b)	-	-	(a)
Connecticut	(b)	-	(b)	(a)	(b)	-	-	-
Middle Atlantic division	(b)	(a)	(b)	-	(a)	(b)	-	(b)
New York	(b)	-	(a)	-	-	(b)		(a)
New Jersey	(b)	(a)	(a)	-	-	-	-	(b)
Pennsylvania	(b)	-	(b)	-	(a)	-	-	(b)
North Central region	7,284	-	-	(b)	-	(a)	-	(b)
Illinois	(b)	-	-	(b)	-	(a)	-	(b)
South region	8,248,349	5,973,901	181,915	1,893,459	62,363	8,456	104,423	23,832
Virginia	209,235	209,235	-	-	-	-	-	-
North Carolina	2,611,175	1,214,659	69,978	1,290,324	(c)	(b)	(b)	(b)
South Carolina	2,582,048	2,337,336	85,692	88,393	(d)	-	(c)	(b)
Georgia	1,599,074	1,324,337	(c)	180,916	-	(a)	(d)	-
Kentucky	(b)	-	(a)	-	-	-	-	(b)
Tennessee	137,805	(d)	-	(d)	-	-	-	-
Alabama	908,361	620,080	(c)	276,976	-	-	-	-
Mississippi	(d)	(d)	-	-	-	-	-	-
Arkansas	23,971	23,971	-	-	-	-	-	-
Texas	128,522	112,153	-	(c)	-	(b)	-	-
West region	(b)	-	-	-	-	(b)	-	(a)

Note: Individual States are shown where the consumption was over 3 thousand bales. Where the data are withheld to avoid disclosing information for individual companies, a letter symbol has been substituted as follows, to indicate the approximate magnitude of the withheld information:
(a) Less than 1,000 bales
(b) 1,000 to 9,999 bales
(c) 10,000 to 24,999 bales
(d) 25,000 or more bales.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
[1]Excludes data for Industry Group 225-, Knitting Mills and Group 227-, Floor Covering Mills. For these groups information on fiber consumption was not collected.

TABLE 1B. Consumption of Man-Made Fiber Staple, by Industry and Geographic Areas: 1963

Geographic area	All industries, total	Weaving mills, cotton (SIC 2211)	Weaving mills, synthetics (SIC 2221)	Weaving, finishing mills, wool (SIC 2231)	Yarn mills, except wool (SIC 2281)	Wool yarn mills (SIC 2283)	Other industries[1]
United States, total	993,423	165,166	344,669	13,525	386,431	39,636	43,996
Northeast region	79,999	10,730	13,107	6,170	39,039	5,269	5,684
Maine	12,572	(d)	(d)	(c)	-	(a)	-
New Hampshire	11,855	-	(d)	(c)	(d)	(c)	(a)
Massachusetts	11,216	(d)	(c)	(c)	5,187	(b)	(a)
Connecticut	15,340	-	(b)	(a)	(d)	(a)	-
Pennsylvania	23,949	-	(c)	(c)	15,734	(b)	(d)
North Central region	(b)	-	-	(a)	(a)	(a)	-
South and West regions	912,539	154,436	331,562	6,975	347,320	33,934	38,312
Maryland	(d)	-	-	(b)	(d)	-	-
Virginia	21,916	(d)	(b)	(c)	-	-	(d)
North Carolina	399,038	40,099	120,936	(d)	210,634	14,815	(d)
South Carolina	278,745	55,299	180,928	(a)	25,713	9,955	(d)
Georgia	141,712	41,678	(d)	(a)	67,049	7,273	(d)
Tennessee	20,002	-	(d)	(a)	15,285	-	(a)
Alabama	38,993	(d)	(d)	(b)	22,162	(c)	-

Note: Individual States are shown where the consumption was over 5 million pounds. Where the data are withheld to avoid disclosing information for individual companies, a letter symbol has been substituted as follows, to indicate the approximate magnitude of the withheld information:
(a) Under 500,000 pounds
(b) 500,000-999,000 pounds
(c) 1,000,000-2,499,000 pounds
(d) 2,500,000 pounds and over.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
[1]Excludes data for Industry Group 225-, Knitting Mills and Group 227-, Floor Covering Mills. For these groups information on fiber consumption was not collected.

TABLE 1C. Consumption of Linters (209131), by Type of Consumer: 1963

Code	Type of consumer and industry	Thousands of pounds[1]
	Total consumption	963,161
	Bleachers (industry 2611, part)	388,711
	Other consumers, total	574,450
	Industry:	
2293	Padding and upholstery filling	194,532
2512	Wood furniture, upholstered	63,881
2515	Mattresses and bedsprings	243,965
2611	Pulp mills (except bleachers)	27,182
	Other industries	44,890

[1]Consumption of linters in running bales is published monthly in Current Industrial Reports Series M22P "Cotton, Man-made Fiber Staple and Linters—Consumption, Stocks, and Spindle Activity."

TABLE 1D. Consumption of Raw Wool, by Industries and Geographic Areas: 1963

Geographic area	All industries, total	Weaving mills, synthetics (SIC 2221)	Weaving, finishing mills, wool (SIC 2231)	Wool yarn mills (SIC 2283)	Felt goods, n.e.c. (SIC 2291)	Scouring and combing plants (SIC 2297)	Other industries[1]
United States, total	402,031	10,771	183,408	118,857	31,879	45,085	12,031
Northeast region	203,692	(a)	104,630	33,014	19,062	(c)	5,062
Maine	23,133	(a)	23,021	-	-	-	(a)
New Hampshire	21,647	-	20,146	(b)	(a)	-	(a)
Vermont	(b)	-	(b)	-	-	-	-
Massachusetts	63,461	-	39,606	4,697	1,277	(c)	(a)
Rhode Island	(b)	-	(a)	4,001	-	(a)	-
Connecticut	12,637	-	8,053	(b)	(b)	-	(b)
New York	16,861	-	6,260	5,309	(b)	-	(b)
New Jersey	13,126	-	6,401	(a)	(c)	-	(a)
Pennsylvania	46,811	-	-	16,155	4,384	23,289	2,983
North Central region	24,776	-	4,578	(c)	(c)	-	(a)
Ohio	3,538	-	(a)	2,620	-	-	(a)
Illinois	11,259	-	(a)	(b)	5,270	-	(a)
Wisconsin	7,282	-	1,842	(a)	(c)	-	-
South region	165,570	(c)	70,849	77,863	-	-	(c)
Maryland	(b)	-	(b)	-	-	-	-
Virginia	(c)	-	(c)	-	-	-	(a)
North Carolina	33,661	10,607	(b)	16,658	-	-	(b)
South Carolina	55,349	(a)	12,889	42,171	-	-	(a)
Georgia	41,654	(a)	(c)	17,434	-	-	(a)
Tennessee	11,377	-	9,190	-	-	-	2,187
Alabama	4,353	-	(a)	(b)	-	-	1,806
West region	7,993	-	3,351	(a)	(a)	(b)	(a)
Washington	(b)	-	(b)	-	-	-	(a)
Oregon	5,027	-	(b)	(a)	-	(b)	-

Note: Individual States are shown where the consumption was over 1 million pounds. Where the data are withheld to avoid disclosing information for individual companies, a letter symbol has been substituted as follows, to indicate the approximate magnitude of the withheld information:
(a) Less than 1 million pounds
(b) 1 million to 5 million pounds
(c) 5 million pounds or more.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1]Excludes data for Industry Group 225-, Knitting Mills and Group 227-, Floor Covering Mills. For these groups information of fiber consumption was not collected.

TABLE 2. Consumption of Broad-Woven Fabrics (Piece Goods), by Selected Industries: 1963

Ind. code	Industry and kind of fabric	Estimated total[1]		Reported[2]	
		Quantity (1,000 lin. yds.)	Cost ($1,000)	Quantity (1,000 lin. yds.)	Cost ($1,000)
	All industries listed, total	[2]11,789,350	6,049,955	(X)	5,001,428
2211	Weaving mills, cotton	427,865	141,376	423,064	139,851
2221	Weaving mills, synthetics	38,423	25,213	37,446	24,568
2231	Weaving, finishing mills, wool	59,944	111,502	58,804	109,381
2261	Finishing plants, cotton	1,398,926	331,842	1,334,214	316,311
2262	Finishing plants, synthetics	64,965	34,830	60,349	32,337
2295	Coated fabric, not rubberized	341,991	124,655	300,805	109,966
	Cotton fabrics	309,637	102,971	272,265	90,838
	Man-made fiber fabrics, including glass	32,354	21,684	28,540	19,128
2311	Men's and boys' suits and coats	227,046	432,981	258,240	403,537
	Suiting and coating piece goods, excluding linings	137,206	357,888	127,888	333,568
	All other piece goods, including linings	139,840	75,093	130,352	69,969
2321	Men's dress shirts and nightwear	897,443	411,607	853,308	391,196
	Suiting and coating piece goods, excluding linings	25,022	22,516	23,800	21,416
	All other piece goods, including linings	872,421	389,091	829,508	369,780
2322	Men's and boys' underwear	70,918	21,533	69,454	21,083
	Suiting and coating piece goods, excluding linings	524	691	513	677
	All other piece goods, including linings	70,394	20,842	68,941	20,406
2323	Men's and boys' neckwear	137,810	44,123	94,644	30,310
2327	Separate trousers	347,458	287,531	321,472	265,925
	Suiting and coating piece goods, excluding linings	57,397	70,560	52,988	65,137
	All other piece goods, including linings	290,061	216,971	268,484	200,788
2328	Work clothing	595,814	335,752	577,406	325,438
	Suiting and coating piece goods, excluding linings	54,185	35,642	52,466	34,507
	All other piece goods, including linings	541,629	300,110	524,940	290,931
2329	Men's and boys' clothing, n.e.c	151,140	134,440	137,108	121,996
	Suiting and coating piece goods, excluding linings	55,297	64,213	50,180	58,277
	All other piece goods, including linings	95,843	70,227	86,928	63,719
2331	Blouses	246,581	149,795	204,342	124,272
	Suiting and coating piece goods, excluding linings	13,653	11,619	11,342	9,654
	All other piece goods, including linings	232,928	138,176	193,000	114,618
2335	Dresses	865,050	603,899	665,287	464,119
	Suiting and coating piece goods, excluding linings	45,831	48,468	35,182	37,286
	All other piece goods, including linings	819,219	555,431	630,105	426,833
2337	Women's suits, coats, and skirts	475,892	513,436	380,279	410,501
	Suiting and coating piece goods, excluding linings	108,641	278,886	87,013	223,302
	All other piece goods, including linings	367,251	234,550	293,266	187,199
2339	Women's outerwear, n.e.c	288,253	225,590	268,939	174,369
	Suiting and coating piece goods, excluding linings	9,530	14,995	7,377	11,614
	All other piece goods, including linings	338,723	210,595	261,562	162,755
2341	Women's and children's underwear	451,512	168,171	358,504	133,758
2342	Corsets and allied garments	164,502	122,847	142,873	106,625
2361	Children's dresses and blouses	232,862	113,824	184,304	90,273
	Suiting and coating piece goods, excluding linings	4,231	3,224	3,364	2,565
	All other piece goods, including linings	228,631	110,600	180,940	87,708

See footnotes at end of table.

TABLE 2. Consumption of Broad-Woven Fabrics (Piece Goods), by Selected Industries: 1963–Continued

Ind. code	Industry and kinds of fabric	Estimated total		Reported	
		Quantity (1,000 lin. yds.)	Cost ($1,000)	Quantity (1,000 lin. yds.)	Cost ($1,000)
2363	Children's coats and suits	50,385	53,584	40,944	43,575
	Suiting and coating piece goods, excluding linings	22,124	36,237	17,999	29,471
	All other piece goods, including linings	28,261	17,347	22,945	14,104
2369	Children's outerwear, n.e.c.	204,200	115,015	184,194	103,609
	Suiting and coating piece goods, excluding linings	14,957	12,994	13,132	11,406
	All other piece goods, including linings	189,243	102,021	171,062	92,203
2381	Fabric dress and work gloves	58,571	27,256	54,608	25,393
2384	Robes and dressing gowns	237,681	123,633	106,605	55,473
2385	Waterproof outergarments	123,557	123,540	58,080	58,063
2386	Leather and sheeplined clothing	4,295	4,278	3,891	3,874
2387	Apparel belts	5,708	3,096	3,834	2,084
2389	Apparel, n.e.c	89,080	29,293	64,074	21,041
2391	Curtains and draperies	371,676	142,803	285,005	109,535
	Cotton	98,832	33,944	75,350	25,960
	Rayon and acetate	134,161	57,912	102,827	44,438
	Nylon	9,114	2,206	7,035	1,707
	Other broad-woven fabrics	129,559	48,741	99,793	37,430
2392	Housefurnishings, n.e.c	669,580	230,126	545,088	187,132
	Cotton	515,891	169,064	420,261	137,506
	Rayon and acetate	86,225	37,144	70,128	30,222
	Nylon	12,424	4,647	10,102	3,788
	Other broad-woven fabrics	55,040	19,271	44,597	15,616
2393	Textile bags	1,309,021	187,977	634,967	89,878
	Cotton	289,319	57,396	139,719	27,476
	Other broad-woven fabrics (nylon, etc.)	1,019,702	130,581	495,248	62,402
2394	Canvas products	99,814	51,649	68,576	35,379
	Cotton	91,614	45,498	62,980	31,181
	Other broad-woven fabrics (rayon and acetate, nylon, etc.)	8,200	6,151	5,596	4,198
2399	Textile products, n.e.c	215,708	62,000	152,927	43,826
	Cotton	170,558	35,471	121,053	25,075
	Rayon and acetate	6,450	3,604	4,568	2,550
	Nylon	32,722	17,426	23,086	12,319
	Other broad-woven fabrics	5,978	5,499	4,220	3,882
2512	Wood furniture, upholstered	80,808	140,160	66,103	114,689
	Cotton	[3]25,051	41,822	[3]20,476	34,181
	Other (rayon, nylon, etc.)	[3]55,757	98,338	[3]45,627	80,508
2515	Mattresses and bedsprings	227,547	141,215	103,995	64,411
	Cotton	[3]17,735	23,917	[3]8,064	10,861
	Other (rayon, nylon, etc.)	10,223	15,823	4,773	7,375
	Ticking (mattress)	[3]199,589	101,475	[3]91,158	46,175
3011	Tires and inner tubes	[4]24,554	16,989	[4]24,363	16,847
	Cotton	[4]9,162	8,170	[4]9,088	8,096
	Rayon	[4]4,977	3,363	[4]4,939	3,337
	Nylon	[4]3,412	3,178	[4]3,385	3,153
	Other	[4]7,003	2,278	[4]6,951	2,261
3021	Rubber footwear	[4]33,513	34,338	[4]29,450	30,181
	Cotton	[4]31,413	30,780	[4]27,596	27,039
	Nylon	[4]596	764	[4]525	673
	Other	[4]1,504	2,794	[4]1,329	2,469
30319	Reclaimed rubber	[4]103,277	82,358	[4]96,794	77,216
30698	Rubber products, n.e.c				
	Cotton	[4]69,287	52,267	[4]64,969	49,028
	Rayon	[4]18,698	9,781	[4]17,511	9,164
	Nylon	[4]7,503	11,799	[4]7,044	11,079
	Other	[4]7,789	8,511	[4]7,270	7,945
3079	Plastics products, n.e.c	83,408	35,873	(NA)	29,820
	Cotton fabrics	45,122	16,730	37,598	13,946
	Other textile fabrics	[3]38,286	19,143	(NA)	15,874
3141	Shoes, except rubber	53,718	27,201	47,281	23,918
3142	House slippers	7,231	8,403	5,628	6,544
3151	Leather gloves	3,388	2,022	2,938	1,752
3161	Luggage	15,280	6,270	(NA)	6,065
	Cotton	[3]2,288	915	(NA)	884
	Rayon and acetate	10,167	3,660	9,704	3,541
	Other broad-woven fabrics	[3]2,825	1,695	(NA)	1,640

See footnotes at end of table.

TABLE 2. Consumption of Broad-Woven Fabrics (Piece Goods), by Selected Industries: 1963–Continued

Ind. code	Industry and kind of fabric	Estimated total		Reported	
		Quantity (1,000 lin. yds.)	Cost ($1,000)	Quantity (1,000 lin. yds.)	Cost ($1,000)
3171	Handbags and purses	15,082	11,398	10,443	7,896
	Cotton	3,430	2,157	2,374	1,492
	Rayon and acetate	7,913	4,979	5,467	3,438
	Other broad-woven fabrics	3,739	4,262	2,602	2,966
3713	Truck and bus bodies	53	109	53	109
3717	Motor vehicles and parts	10,149	12,642	10,149	12,642
	Cotton	4,948	1,395	4,948	1,395
	Other broad-woven fabrics	5,201	11,247	5,201	11,247
3721	Aircraft	1,518	4,211	1,518	4,211
3729	Aircraft equipment, n.e.c	1,285	2,363	1,285	2,363
3842	Surgical appliances and supplies	112,680	10,216	97,358	8,905
	Cotton broad-woven fabrics	109,946	8,163	94,975	7,115
	Other broad-woven fabrics	2,734	2,053	2,383	1,790
3941	Games and toys	2,509	1,240	2,509	1,240
3942	Dolls	16,626	11,815	11,506	8,180
3943	Children's vehicles	1,803	1,026	1,328	755
3949	Sporting and athletic goods	21,250	10,909	17,519	9,006

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

[1]The columns "Estimated Total" include for each industry a proportionate part of the cost of materials that were not specified by kind. The quantity figures were raised proportionately using the unit value reported for the industry (see text). The "Reported" columns show the data as reported and published in table 7 of the Industry Reports for the specific industry prior to the adjustment for the cost of materials not specified by kind.

[2]Total quantity includes data for industries 3011, 3021, 3031, and 3069 in pounds. The total yardage figure is consequently understated because the fabric consumed in those industries probably exceeded one yard per pound.

[3]Estimated or partially estimated, based on unit value reported for other industries (see text).

[4]Quantity data for industries 3011, 3021, 3031, and 3069 were collected and are shown in pounds rather than linear yards. Data exclude tire cord consumption.

PAPERBOARD CONTAINERS AND NEWSPRINT

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PAPERBOARD CONTAINERS AND NEWSPRINT

This section presents data on materials consumed by establishments classified in Major Group 26, Paper and Allied Products industries, and Major Group 27, Printing and Publishing industries, as well as data on industries consuming $1 million worth of boxes and containers. Comments on individual groups of materials are shown below.

NEWSPRINT

Volume II, Industry Statistics, presents two special geographic distributions of newsprint consumption. The tonnage of newsprint consumed in newspaper publishing in 1963 and 1958 is shown in table 7C on page 27A-39 and the delivered cost of newsprint purchased and consumed by commercial printers and manifold business forms manufacturers in 1963 and 1958 is shown in table 7C on page 27B-30.

The two tables in this chapter have been prepared in the interest of presenting a more comprehensive picture of the consumption of this "complete coverage" material. Table 1A shows the United States consumption of newsprint in 1963 and 1958 by industries in terms of delivered cost. Where available, the corresponding tonnages purchased are also shown. Table 2 presents newsprint consumed by the publishing industries as well as the book manufacturing industry during 1963 and 1958, by geographic divisions and States. In this presentation, the newsprint consumption has been assigned to the State in which the publishers purchasing the material were located, although in some industries the newsprint may have been consumed by printers located in a different State.

PAPER AND BOARD

Data on the quantity and cost of paper and paperboard grades consumed in the paper and board converting industries are shown in Volume II, pages 26B-27 to 31, for all converted products except containers and boards, and on pages 27C-21 and 22 for paperboard containers and boxes.

Paper consumption statistics for the printing and publishing industries appear in Volume II, table 7A's, of Chapter 27. Except for newsprint, grade detail was not collected from the printing industries, since printers generally have demonstrated their inability to furnish more detailed information based on a reportable canvass made prior to the 1958 Census of Manufactures. Therefore, with the exception of newsprint, quantity and cost information cannot be presented on a uniform basis for all consuming industries, for which consumption data were collected.

BOXES AND CONTAINERS

Table 1B presents the reported delivered cost of paperboard boxes and containers for all industries consuming $1 million worth of containers in 1963. Where available, the 1958 reported cost figures are also presented. The data shown in this table also appear in Volume II, table 7A's for all industries shown in the table. They are being presented here to show a more composite presentation of the container information.

TABLE 1A. Newsprint (262111 and 262112) Consumed, by Selected Industries: 1963 and 1958

Code	Consuming industry	1963		1958	
		Purchased quantity (short tons)	Delivered cost ($1,000)	Purchased quantity (short tons)	Delivered cost ($1,000)
	Total newsprint consumed	(NA)	1,021,126	(NA)	946,419
2711	Newspapers	6,616,320	889,287	5,830,483	598,379
2721	Periodicals	159,905	23,306	252,126	34,073
2731	Books, publishing and printing	28,910	5,582	42,280	5,821
2732	Books printing	(NA)	4,370	31,592	5,106
2741	Miscellaneous publishing	25,268	3,680	37,707	5,326
2751	Printing, except lithographic (letterpress, gravure, and screen)	(NA)	67,976	(NA)	74,400
2752	Printing, lithographic	(NA)	14,728	(NA)	9,052
2761	Manifold business forms	(NA)	4,127	(NA)	5,312
2649	Converted paper products, n.e.c	28,809	3,715	50,522	6,668
	All other industries	34,137	4,355	(NA)	2,267

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.

TABLE 1B. Cost of Paperboard Boxes and Containers, Including Folding, Corrugated and Setup (265011) by Industries: 1963 and 1958

Code	Consuming industries	Delivered cost ($1,000)	
		1963	1958
	Total	[1]569,994	(NA)
2032	Canned specialties	17,815	15,178
2033	Canned fruits and vegetables	42,601	45,603
2035	Pickles, sauces, salad dressings	5,537	4,073
2037	Frozen fruits and vegetables	89,716	40,663
2514	Metal household furniture	14,760	(NA)
2521	Wood office furniture	1,466	(NA)
2522	Metal office furniture	7,282	(NA)
2531	Public building furniture	3,175	(NA)
2541	Wood partitions and fixtures	1,198	(NA)
2542	Metal partitions and fixtures	5,795	(NA)
2831	Biological products	1,927	(NA)
2833	Medicinals and botanicals	2,516	(NA)
2834	Pharmaceutical preparations	55,103	38,895
2841	Soap and other detergents	90,238	78,180
2842	Polishes and sanitation goods	9,080	4,283
3211	Flat glass	4,753	(NA)
3221	Glass containers	100,472	85,783
3229	Pressed and blown glass, n.e.c	23,613	17,643
3231	Products of purchased glass	4,518	5,544
3261	Vitreous plumbing fixtures	5,460	(NA)
3263	Fine earthenware food utensils	3,005	(NA)
3264	Porcelain electrical supplies	1,496	(NA)
3269	Pottery products, n.e.c	2,166	(NA)
3292	Asbestos products	4,769	5,929
3293	Gaskets and insulations	4,668	3,286
3941	Games and toys	38,769	(NA)
3942	Dolls	6,387	(NA)
3943	Children's vehicles	1,606	(NA)
3949	Sporting and athletic goods	9,002	(NA)
3982	Hard surface floor coverings	2,138	(NA)
	Other	8,963	(NA)

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.
[1]The total shown of $570 million of delivered cost of paperboard boxes and containers does not represent the entire amount spent by industrial plants in the United States for these types of containers, but does represent the amount shown for the specific industries shown in this table and other selected industries which consume less than $1 million worth of paperboard boxes and containers.

TABLE 2. Newsprint Consumed by Publishing and Manufacturing Industries, by Divisions and States: 1963 and 1958

Division and State	1963						1958					
	Newspapers (2711)		Periodicals (2721)		Books and miscellaneous publishing industries (2731, 2732, and 2741)		Newspapers (2711)		Periodicals (2721)		Books and miscellaneous publishing industries (2731, 2732, and 2741)	
	Quantity (short tons)	Value ($1,000)	Quantity (short tons)	Value ($1,000)	Quantity[1] (short tons)	Value ($1,000)	Quantity (short tons)	Value ($1,000)	Quantity (short tons)	Value ($1,000)	Quantity (short tons)	Value ($1,000)
United States, total.	6,616,749	889,263	159,905	23,306	81,335	13,632	5,830,483	798,379	252,126	34,073	111,579	16,253
New England	373,091	50,055	(D)	(D)	1,886	361	346,729	47,785	10,004	1,395	1,932	288
Maine	16,183	2,174	(D)	(D)	-	-	15,108	2,026	-	-	-	-
New Hampshire	7,438	999	-	-	(D)	(D)	10,794	1,439	-	-	-	-
Vermont	4,193	559	-	-	(D)	(D)	4,027	538	-	-	-	-
Massachusetts	228,563	30,734	(D)	(D)	350	60	220,083	30,762	3,693	516	(D)	(D)
Rhode Island	31,994	4,227	-	-	-	-	28,234	3,785	-	-	-	-
Connecticut	84,720	11,362	(D)	(D)	1,455	213	68,483	9,235	6,311	879	(D)	(D)
Middle Atlantic	1,590,369	214,739	100,836	14,889	27,796	5,425	1,493,577	201,549	177,370	23,623	44,117	6,354
New York	908,118	122,404	64,508	9,907	26,841	5,273	917,601	122,949	134,687	17,623	43,292	6,115
New Jersey	196,891	26,686	(D)	(D)	(D)	(D)	134,000	18,530	1,145	194	88	132
Pennsylvania	485,360	65,649	(D)	(D)	(D)	(D)	441,976	60,070	41,538	5,806	737	107
East North Central	1,394,202	187,247	16,079	2,404	30,081	4,544	1,335,650	179,492	30,368	4,199	40,910	5,973
Ohio	376,184	50,399	9,810	1,437	4,741	808	408,325	53,129	16,050	2,392	2,460	370
Indiana	140,181	19,031	519	75	(D)	(D)	115,912	15,781	3,496	472	6,380	938
Illinois	458,148	61,410	5,622	875	6,010	943	437,278	59,184	7,026	738	6,393	959
Michigan	283,576	38,004	(D)	(D)	(D)	(D)	238,730	32,758	1,295	136	5,275	786
Wisconsin	136,113	18,403	(D)	(D)	10,733	1,556	135,405	18,640	2,501	461	20,402	2,920
West North Central	447,720	60,321	14,080	2,063	3,334	773	476,592	64,138	14,820	1,986	6,489	928
Minnesota	121,488	16,214	1,455	224	2,497	648	114,921	14,706	1,202	167	3,848	558
Iowa	64,794	8,765	4,823	757	(D)	(D)	64,998	8,624	6,654	979	(D)	(D)
Missouri	165,777	22,353	4,370	590	(D)	(D)	205,722	28,215	4,923	583	1,746	255
North Dakota	8,010	1,082	-	-	-	-	7,616	1,027	-	-	-	-
South Dakota	7,791	1,051	-	-	(D)	(D)	7,417	996	-	-	(D)	(D)
Nebraska	42,973	5,864	(D)	(D)	-	-	38,672	5,317	947	128	(D)	(D)
Kansas	36,887	4,992	(D)	(D)	537	84	37,246	5,253	1,094	129	(D)	(D)
South Atlantic	840,746	112,655	1,482	211	5,890	993	638,874	94,810	6,340	949	(D)	(D)
Delaware	(D)	(D)	-	-	-	-	9,094	1,249	-	-	-	-
Maryland	107,808	14,446	(D)	(D)	(D)	(D)	90,428	12,321	(D)	(D)	(D)	(D)
District of Columbia	156,044	20,891	(D)	(D)	(D)	(D)	120,398	16,391	2,850	380	-	-
Virginia	(D)	(D)	(D)	(D)	-	-	71,548	9,791	(D)	(D)	-	-
West Virginia	26,835	3,612	-	-	-	-	34,019	4,634	-	-	-	-
North Carolina	83,967	11,399	-	-	(D)	(D)	72,214	9,865	(D)	(D)	(D)	(D)
South Carolina	34,443	4,552	285	42	(D)	(D)	30,328	4,098	(D)	(D)	(D)	(D)
Georgia	100,526	13,598	(D)	(D)	(D)	(D)	85,098	11,532	(D)	(D)	(D)	(D)
Florida	234,407	31,530	(D)	(D)	(D)	(D)	125,747	24,929	1,367	210	(D)	(D)
East South Central	222,803	30,233	(D)	(D)	(D)	(D)	205,750	27,740	7,593	1,139	(D)	(D)
Kentucky	55,922	7,969	-	-	(D)	(D)	51,550	7,074	(D)	(D)	(D)	(D)
Tennessee	90,512	12,195	(D)	(D)	178	72	84,086	11,365	939	140	(D)	(D)
Alabama	59,016	7,783	-	-	-	-	56,971	7,517	5,966	901	-	-
Mississippi	17,353	2,286	-	-	(D)	(D)	13,143	1,784	(D)	(D)	(D)	(D)
West South Central	479,730	63,846	4,134	575	1,509	264	411,404	55,862	1,691	252	1,545	238
Arkansas	23,989	3,297	-	-	743	123	20,824	2,843	-	-	(D)	(D)
Louisiana	80,116	10,797	(D)	(D)	374	64	73,516	9,945	(D)	(D)	-	-
Oklahoma	65,609	8,955	(D)	(D)	(D)	(D)	54,450	7,505	(D)	(D)	-	-
Texas	310,016	40,797	3,433	479	(D)	(D)	262,614	35,569	1,394	209	1,431	219
Mountain	205,239	28,109	156	22	(D)	(D)	160,708	23,599	1,097	149	681	114
Montana	8,875	1,195	(D)	(D)	-	-	11,563	1,850	(D)	(D)	-	-
Idaho	8,249	1,117	-	-	(D)	(D)	7,520	1,041	(D)	(D)	(D)	(D)
Wyoming	2,776	375	(D)	(D)	-	-	2,334	331	-	-	-	-
Colorado	82,027	11,311	-	-	-	-	69,066	10,136	(D)	(D)	667	111
New Mexico	12,289	1,650	-	-	-	-	9,011	1,344	(D)	(D)	-	-
Arizona	52,248	7,048	-	-	(D)	(D)	31,503	4,609	(D)	(D)	(D)	(D)
Utah	30,098	4,251	-	-	-	-	24,707	3,583	-	-	-	-
Nevada	8,677	1,162	-	-	(D)	(D)	5,004	705	-	-	-	-
Pacific	1,062,849	142,058	3,010	429	7,270	1,138	761,199	103,404	2,843	381	14,980	2,203
Washington	95,960	12,790	(D)	(D)	(D)	(D)	87,152	11,806	(D)	(D)	-	-
Oregon	62,033	8,330	(D)	(D)	-	-	60,358	8,062	130	(D)	(D)	(D)
California	883,411	117,982	2,757	393	(D)	(D)	613,689	83,536	2,685	352	(D)	(D)
Alaska	(D)	(D)	-	-	-	-	-	-	-	-	-	-
Hawaii	(D)	(D)	-	-	-	-	-	-	-	-	-	-

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1]Partially estimated.

CHEMICALS AND RUBBER

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CHEMICALS AND RUBBER

This section includes data on materials primarily consumed by establishments classified in Major Group 28, "Chemicals and Allied Products," Major Group 29, "Petroleum and Coal Products," and Major Group 30, "Rubber and Miscellaneous Plastics Products, N.E.C." Comments on individual materials or groups of materials are shown below.

SULFUR, NATIVE AND RECOVERED

The total for sulfur consumption shown in table 1A is less than the "apparent consumption" figures published by the Bureau of Mines, Department of the Interior, because Census information was not requested from certain manufacturing establishments, principally those classified in the Rubber and Miscellaneous Plastics Products Industries, Major Group 30, the Match Industry (3983), and the Drugs Industry (Group 283).

CHEMICALS

Consumption data shown for the specified chemicals (table 1A) represent a varying proportion of the U.S. total production. The coverage for ammonia is relatively low because Census figures exclude quantities used for direct application to the soil. Coverage for sodium hydroxide (caustic soda) is low because information was not collected from plants classified in the textile, rubber reclaiming, vegetable oil refineries, and other miscellaneous industries.

In making any comparison of the quantity consumed with total supply of a specified chemical, account should be taken of the factors discussed in the Introduction to the materials consumption tables. Also consideration should be given to the variations in handling consumption data for inorganic chemicals produced and consumed in the same establishment. The statistics showing "consumption" by industries indicate separately purchases or receipts from other establishments and the quantities produced and consumed.

RUBBER

The figures for natural, synthetic, and reclaimed rubber, shown in table 1B and 2A, are limited to the quantities and consumed by establishments classified in the specified industries. Estimates of total rubber consumption for all industries are published by the Census Bureau in Current Industrial Reports Series M30A, "Rubber, Supply and Distribution for the United States." Based on the 1963 figures shown in Series M30A, the establishments classified in the industries covered by the census used approximately 92 percent of the total synthetic rubber, 96 percent of natural rubber, and 98 percent of the reclaimed rubber. The 1958 coverage ratios are similar.

TABLE 1A. Chemicals Consumed, by Selected Industries: 1963 and 1958

Code	Industry	1963				1958			
		Total quantity	Purchased		Quantity produced and consumed	Total quantity	Purchased		Quantity produced and consumed
			Quantity	Delivered cost ($1,000)			Quantity	Delivered cost ($1,000)	
		SULFUR (NATIVE AND RECOVERED) (Quantity in long tons)							
	Total	4,807,711	4,807,711	121,569	-	3,479,177	3,479,177	105,181	-
2611	Pulp mills	149,602	149,602	3,998	-	110,882	110,882	8,107	-
2621	Paper mills, except building	243,725	243,725	6,927	-	219,641	219,641	7,825	-
2631	Paperboard mills	70,801	70,801	2,389	-	42,873	42,873	1,535	-
2815	Intermediate coal tar products	196,487	196,487	4,475	-	164,539	164,539	4,117	-
2818	Organic chemicals, n.e.c	539,871	539,871	13,676	-	274,804	274,804	8,287	-
2819	Inorganic chemicals, n.e.c	1,804,323	1,804,323	45,104	-	1,489,956	1,489,956	41,925	-
2871	Fertilizers	1,802,902	1,802,902	45,000	-	1,176,482	1,176,482	33,385	-
		SULFURIC ACID (281930 AND 281931) (Quantity in short tons of 100% Cl_2)							
	Total	(NA)	7,976,513	150,427	(NA)	(NA)	(NA)	(NA)	(NA)
2812	Alkalies and chlorine	36,115	36,115	830	-	32,065	32,065	809	-
2815	Intermediate coal tar products	602,435	266,777	6,031	335,658	429,593	118,415	3,568	311,178
2818	Organic chemicals, n.e.c	1,502,389	948,933	19,440	553,456	795,773	483,665	10,277	312,108
2819	Inorganic chemicals, n.e.c	2,914,845	1,082,944	18,470	1,831,901	2,127,693	1,176,490	23,187	951,203
2821	Plastics materials and resins	(D)	312,536	5,642	(D)	(D)	260,191	5,612	(D)
2822	Synthetic rubber	25,695	25,695	435	-	(NA)	(NA)	(NA)	(NA)
2823	Celloulosic man-made fibers	548,256	548,256	10,556	-	484,386	484,386	10,075	-
2824	Organic fibers, noncellulosic	47,343	47,343	930	-	4,980	4,980	106	-
2871	Fertilizers	5,951,847	1,627,347	23,866	4,324,500	} 4,454,125	1,096,186	18,362	3,357,939
2872	Fertilizers, mixing only	158,700	158,700	3,165	-				
2892	Explosives	79,208	54,817	1,228	24,391	87,720	43,952	1,075	43,768
2911	Petroleum refining	1,928,884	1,667,262	33,318	261,622	1,421,605	1,421,605	30,014	344,144
3312	Blast furnaces and steel mills	(NA)	1,175,467	25,079	(NA)	1,109,403	(NA)	(NA)	(NA)
3315	Steel wire drawing, etc	24,321	24,321	1,437	-	(NA)	(NA)	(NA)	(NA)
		CHLORINE (281211) (Quantity in short tons of 100% Cl_2)							
	Total	4,856,653	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2611	Pulp mills	229,351	229,351	15,210	-	(D)	158,649	10,610	(D)
2621	Paper mills, except building	394,293	394,293	28,163	-	338,252	307,614	22,091	30,638
2631	Paperboard mills	144,441	144,441	9,976	(NA)	(D)	114,204	8,183	(D)
2812	Alkalies and chlorine	271,829	(D)	(D)	(D)	287,815	(D)	(D)	(D)
2815	Intermediate coal tar products	242,310	165,649	9,239	76,661	144,074	(D)	(D)	(D)
2818	Organic chemicals, n.e.c	2,940,835	1,115,249	64,867	1,825,586	1,814,943	863,326	51,529	951,617
2819	Inorganic chemicals, n.e.c	633,591	123,432	8,579	510,159	268,787	85,168	6,209	183,619
		SODIUM HYDROXIDE (281238) (Quantity in short tons of 100% NaOH)							
	Total	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2611	Pulp mills	347,967	347,967	17,444	-	(D)	192,854	11,343	(D)
2621	Paper mills, except building	270,189	270,189	17,056	-	(D)	154,201	10,074	(D)
2631	Paperboard mills	117,371	117,371	6,764	-	(D)	107,533	6,166	(D)
2812	Alkalies and chlorine	159,755	(D)	(D)	(D)	139,310	-	-	139,310
2815	Intermediate coal tar products	266,543	182,929	10,712	83,614	132,361	(D)	(D)	(D)
2818	Organic chemicals, n.e.c	1,344,954	463,841	22,004	881,113	889,498	(D)	(D)	(D)
2819	Inorganic chemicals, n.e.c	529,718	424,343	20,585	105,375	321,170	273,990	15,420	47,180
2821	Plastics materials	(D)	221,607	12,680	(D)	158,009	158,009	10,182	-
2823	Cellulosic man-made fibers	334,923	334,923	17,789	-	295,487	295,487	19,129	-
2824	Organic fibers, noncellulosic	31,445	31,445	1,704	-	(NA)	(NA)	(NA)	(NA)
2841	Soap and other detergents	260,943	260,943	19,998	-	225,264	225,264	16,787	-
2842	Polishes and sanitation goods	10,604	10,604	1,067	-	13,403	13,403	1,357	-
2911	Petroleum refining	243,569	243,569	14,290	-	210,199	210,199	13,564	-
2992	Lubricating oils and greases	4,581	4,581	239	-	3,535	3,535	285	-
		SODIUM CARBONATE (281228) (Quantity in short tons of 58% Na_2O)							
	Total	4,320,087	3,751,608	134,221	568,479	4,130,303	(NA)	(NA)	(NA)
2621	Paper mills, except building	187,161	187,161	6,949	-	116,046	116,046	4,725	-
2631	Paperboard mills	172,894	172,894	6,690	-	145,247	145,247	5,988	-
2812	Alkalies and chlorine	598,994	30,515	1,021	568,479	844,371	(D)	(D)	(D)
2815	Intermediate coal tar products	43,937	43,937	1,795	-	32,508	32,508	1,377	-
2818	Organic chemicals, n.e.c	40,359	40,359	1,666	-	38,835	(D)	(D)	(D)
2819	Inorganic chemicals, n.e.c	1,310,379	1,310,379	46,898	-	1,207,593	1,207,593	43,967	-
2841	Soap and other detergents	145,480	145,480	4,884	-	112,159	112,159	4,463	-
2842	Polishes and sanitation goods	6,470	6,470	281	-	1,700	1,700	77	-
3211	Flat glass	398,757	398,757	13,524	-	248,348	248,348	9,096	-
3221	Glass containers	1,267,339	1,267,339	45,164	-	1,258,695	1,258,695	44,711	-
3229	Pressed and blown glass, n.e.c	148,317	148,317	5,349	-	124,801	124,801	4,618	-

See footnotes at end of table.

TABLE 1A. Chemicals Consumed, by Selected Industries: 1963 and 1958--Continued

Code	Industry	1963				1958			
		Total quantity	Purchased		Quantity produced and consumed	Total quantity	Purchased		Quantity produced and consumed
			Quantity	Delivered cost ($1,000)			Quantity	Delivered cost ($1,000)	
		AMMONIA (281912) (Quantity in short tons of 100% NH_3)							
	Total	(NA)	1,345,667	96,080	(NA)	(NA)	762,896	62,311	(NA)
2812	Alkalies and chlorine	21,392	19,131	1,943	2,261	53,893	18,340	1,868	35,553
2815	Intermediate coal tar products	126,705	56,040	3,875	70,665	87,483	87,483	6,285	-
2818	Organic chemicals, n.e.c.	755,552	379,212	25,857	376,340	404,733	141,069	11,560	263,664
2819	Inorganic chemicals, n.e.c.	2,586,205	266,334	17,343	2,319,875	1,572,478	196,375	15,033	1,376,103
2871	Fertilizers	439,774	439,774	32,251	-	254,963	254,963	21,712	-
2872	Fertilizers, mixing only	101,682	101,682	9,155	-				
2892	Explosives	(D)	83,494	5,656	(D)	(D)	64,666	5,853	(D)
		NITRIC ACID (281911) (Quantity in short tons of 100% HNO_3)							
	Total	3,655,361	178,538	12,544	[2]3,476,823	2,685,222	169,686	11,398	[2]2,515,536
2815	Intermediate coal tar products	271,336	45,950	3,129	225,386	168,425	21,001	1,797	147,424
2818	Organic chemicals, n.e.c.	447,646	90,992	7,057	356,654	238,580	[3]	[3]	[3]
2819	Inorganic chemicals, n.e.c.	2,679,304	20,991	1,511	2,658,313	1,768,705	24,082	1,389	1,744,623
2892	Explosives	257,075	20,605	1,083	236,470	135,845	12,532	1,132	123,313
	All other industries[1]					373,667	112,071	7,080	500,176
		SODIUM SULFATE (281976) (Quantity in short tons)							
	Total	1,273,238	1,273,238	38,067	-	(NA)	(NA)	(NA)	-
2611	Pulp mills	207,498	207,498	4,594	-	118,772	118,772	4,380	-
2621	Paper mills, except building	431,151	431,151	13,429	-	381,989	381,989	12,546	-
2631	Paperboard mills	552,486	552,486	16,977	-	367,305	367,305	12,130	-
3211	Flat glass	67,624	67,624	2,141	-	49,275	49,275	1,719	-
3229	Pressed and blown glass, n.e.c.	14,479	14,479	926	-	(NA)	(NA)	(NA)	-

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

[1]Includes data for liquid ash.

[2]Represents total quantity of nitric acid produced and consumed, including quantities consumed by the Tennessee Valley Authority.

[3]"All other industries" includes for 1963 quantities consumed for the Industries 2812, Alkalies and Chlorine; 2816, Inorganic Pigments, and the Tennessee Valley Authority. In 1958 "All other industries" includes quantities consumed for the following Industries: 2812, Alkalies and Chlorine; 2824, Organic Fibers, Noncellulosic; 2841, Soap and Other Detergents; 2843, Surface Active Agents; 2911, Petroleum Refining; 3312, Blast Furnaces and Steel Mills; and the Tennessee Valley Authority.

TABLE 1B. Rubber Consumed by Selected Industries: 1963 and 1958

Code	Industry	Natural rubber (08111, 086113, and 086115)				Synthetic rubber (282202 to 282209 inclusive)				Reclaimed rubber (303101)			
		1963		1958		1963		1958		1963		1958	
		Quantity (long tons)	Value ($1,000)	Quantity (long tons)	Value ($1,000)	Quantity (long tons)	Value ($1,000)	Quantity (long tons)	Value ($1,000)	Quantity (long tons)	Value ($1,000)	Quantity (long tons)	Value ($1,000)
	Total	436,826	262,732	467,646	292,617	1,208,016	615,986	819,608	440,124	[1]258,252	49,419	[1]247,833	45,385
3011	Tires and inner tubes	298,013	170,203	316,147	187,419	[2]793,764	361,255	[2]552,252	264,790	[3]175,470	36,381	[3]153,118	30,667
3021	Rubber footwear	18,048	10,527	18,619	11,604	13,575	6,858	6,942	3,992	[3]1,289	201	1,501	348
3031 & 3069	Reclaimed rubber and rubber products, n.e.c.	116,164	79,068	129,349	90,965	353,782	221,772	221,834	141,931	[3]81,493	12,837	[3]93,214	14,370
3357	Nonferrous wire drawing, etc.	4,601	2,934	3,531	2,629	46,895	26,101	38,580	29,411	(NA)	(NA)	(NA)	(NA)

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

[1]Quantities include 43,642 long tons of reclaimed rubber produced and consumed in the same establishment in 1963, and 39,716 long tons in 1958. Value of this rubber is not reflected in the "Delivered cost" column.

[2]Quantities include less than 1 percent synthetic rubber produced and consumed in the same establishment in 1963, and less than 2 percent in 1958. Value of this rubber is not reflected in the "Delivered cost" column.

[3]Quantities include the following percentages of reclaimed rubber which were produced and consumed in the same establishment: Industry 3011, between 12 and 15 percent in 1963, and less than 10 percent in 1958; Industry 3021, between 25 and 50 percent in 1963; Industries 3031 and 3069, between 20 and 25 percent in 1963, and between 25 and 30 percent in 1958. Value of this rubber is not reflected in the "delivered cost" column.

TABLE 2A. Rubber Consumed in the Rubber Products Industries, by Divisions and States: 1963 and 1958

Division and State	Natural rubber				Synthetic rubber				Reclaimed rubber			
	1963		1958		1963		1958		1963		1958	
	Quantity (long tons)	Delivered cost ($1,000)	Quantity (long tons)	Delivered cost ($1,000)	Quantity (long tons)	Delivered cost ($1,000)	Quantity (long tons)	Delivered cost ($1,000)	Quantity (long tons)	Delivered cost ($1,000)	Quantity (long tons)	Delivered cost ($1,000)
United States, total..	432,225	259,798	464,115	289,988	[1]1,161,121	[1]589,885	[1]781,028	[1]410,713	[2]258,252	[2]49,419	[3]247,833	[3]45,385
New England[4].....	50,660	33,857	64,872	43,151	108,689	62,437	92,359	53,199	18,123	2,898	23,428	4,234
New Hampshire.....	(D)	(D)	814	532	1,885	1,187	1,438	860	(D)	(D)	(D)	(D)
Massachusetts.....	24,671	17,337	34,355	22,672	58,903	34,389	62,561	34,946	12,100	1,501	18,000	3,000
Rhode Island.....	6,604	5,161	7,209	5,534	3,807	2,914	2,618	1,845	(D)	(D)	(D)	(D)
Connecticut.....	18,487	10,820	21,807	14,046	38,960	21,681	22,244	14,035	(D)	(D)	3,644	931
Middle Atlantic.....	43,152	26,286	52,441	34,868	122,692	66,606	93,998	52,778	26,471	6,175	27,246	4,957
New York.....	7,817	4,933	15,073	10,810	16,545	9,499	19,455	11,557	2,933	670	6,067	1,453
New Jersey.....	9,888	6,419	12,760	9,217	16,651	12,504	14,566	10,560	3,222	862	3,979	921
Pennsylvania.....	25,447	14,934	24,608	14,841	89,496	44,603	59,977	30,661	20,316	4,643	17,700	2,583
East North Central.....	175,638	103,793	186,630	114,996	408,236	205,972	266,169	138,121	105,963	19,994	120,028	22,181
Ohio.....	127,442	75,636	130,473	79,663	240,056	119,751	160,169	83,116	71,109	12,111	73,044	12,633
Indiana.....	13,204	7,725	8,775	5,646	51,160	26,697	25,403	14,991	17,383	2,988	11,730	1,939
Illinois.....	(D)	(D)	3,590	2,312	16,646	11,037	(D)	(D)	(D)	(D)	(D)	(D)
Michigan.....	(D)	(D)	31,021	19,203	74,688	36,080	47,180	22,467	10,969	3,105	21,453	4,690
Wisconsin.....	6,779	3,916	12,771	8,172	25,686	12,407	(D)	(D)	(D)	(D)	(D)	(D)
West North Central[4].....	35,612	20,612	29,678	16,974	87,192	42,167	54,563	24,890	23,278	5,357	16,845	3,614
Minnesota.....	(D)	(D)	972	608	1,348	1,215	1,060	830	(D)	(D)	(D)	(D)
Iowa.....	879	576	14,819	8,692	6,477	4,488	29,772	13,410	1,528	365	10,143	2,347
Missouri.....	(D)	(D)	759	556	(D)	(D)	3,692	2,153	(D)	(D)	1,239	248
Nebraska.....	159	111	(D)	(D)	254	182	(D)	(D)	(D)	(D)	(D)	(D)
South Atlantic[4].....	22,635	14,118	25,129	15,808	82,505	41,952	50,901	27,506	7,467	1,684	7,989	1,690
Maryland.....	11,862	6,578	14,543	8,266	32,364	14,473	26,215	12,635	4,647	999	5,025	1,139
Virginia.....	1,359	995	2,198	1,369	3,893	3,207	2,709	2,066	(D)	(D)	(D)	(D)
West Virginia.....	(D)	(D)	-	-	(D)	(D)	2,267	1,205	(D)	(D)	(D)	(D)
North Carolina.....	978	600	2,922	2,173	8,200	4,783	7,318	4,544	(D)	(D)	(D)	(D)
Georgia.....	7,740	5,517	5,220	3,830	26,213	13,605	10,417	5,418	(D)	(D)	(D)	(D)
East South Central[4].....	48,105	28,132	40,539	23,192	165,228	78,656	91,235	45,528	35,575	6,486	17,436	2,553
Tennessee.....	23,452	13,867	16,007	9,791	59,688	29,222	25,172	13,020	12,742	3,355	4,402	896
Alabama.....	(D)	(D)	20,362	11,175	(D)	(D)	57,345	27,128	16,389	1,593	9,639	889
Mississippi.....	(D)	(D)	(D)	(D)	17,466	9,129	(D)	(D)	(D)	(D)	(D)	(D)
West South Central[4].....	26,269	15,207	20,756	13,385	68,067	32,119	45,916	23,499	14,228	3,126	9,364	1,952
Texas.....	(D)	(D)	10,202	6,995	(D)	(D)	24,702	12,375	(D)	(D)	3,255	740
West[4].....	30,154	17,793	44,070	27,614	118,512	59,976	85,887	45,192	27,147	3,699	24,997	4,204
California.....	23,923	13,845	36,281	22,317	96,417	47,945	66,558	34,437	15,889	3,528	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies, or valued at less than $100,000.

[1]Includes less than 1 percent synthetic rubber produced and consumed in the same establishment. Value of this rubber is not reflected in the "delivered cost" column.

[2]Includes 43,642 long tons of reclaimed rubber produced and consumed in the same establishment. Of this total, 6,079 long tons were in New England and 18,161 tons in East North Central. Value of this reclaimed rubber is not reflected in the "delivered cost" column.

[3]Includes 39,716 long tons of reclaimed rubber produced and consumed in the same establishment. Of this total 4,924 long tons was in New England and 17,780 tons in East North Central. Value of this reclaimed rubber is not reflected in the "delivered cost" column.

[4]In addition, both in 1963 and 1958, quantities of rubber were consumed in plants located in the following states for which data could not be shown without disclosing figures for individual companies: Maine, Vermont, Kansas, Delaware, South Carolina, Florida, Kentucky, Arkansas, Oklahoma, Colorado, Utah, Washington, and Oregon.

TABLE 2B. Purchased Rubber Consumed by Drawing and Insulating of Nonferrous Wire Industry (SIC 3357), by Geographic Areas: 1963 and 1958

Geographic area	Natural rubber (086111)				Synthetic rubber (282202)			
	1963		1958		1963		1958	
	Quantity (long tons)	Delivered cost ($1,000)	Quantity (long tons)	Delivered cost ($1,000)	Quantity (long tons)	Delivered cost ($1,000)	Quantity (long tons)	Delivered cost ($1,000)
United States, total.....	4,601	2,934	3,531	2,629	46,895	26,101	38,580	29,411
New England division.....	1,385	1,416	1,232	916	17,246	8,720	12,397	9,454
Middle Atlantic division.....	3,058	1,419	1,711	1,292	11,663	5,363	11,301	8,363
North Central region.....	111	66	527	378	12,160	7,765	6,417	4,450
South and West regions.....	47	33	61	43	5,826	4,253	8,465	7,144

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METALS

This section presents data on the consumption of selected metal mill shapes and forms, castings, forgings, refinery shapes and scrap.

MILL SHAPES, CASTINGS, AND FORGINGS

The materials used by the metal fabricating industries in producing machinery, automobiles, and thousands of other products consist primarily of metal mill shapes and forms, castings, and forgings. The tables which follow show the consumption, in terms of cost and quantity, of the most important of these metals—iron and steel, aluminum and aluminum-base alloys, and copper and copper-base alloys. No data are available for copper and copper-base alloy forgings.

The steel mill shapes are shown separately for three grades of steel: carbon, alloy, and stainless. Carbon steel is subdivided into six shapes, alloy steel into two shapes, while stainless steel is shown in total only.

The copper and copper-base alloy mill shapes are subdivided as follows: Bare wire for electrical conduction; insulated wire and cable; rod, bar, and mechanical wire; plate, sheet, and strip; and pipe and tube. There is a degree of duplication in the consumption of copper and copper-base mill shapes because of the inclusion in these tables of both bare wire for electrical conduction and insulated wire and cable. However, the consumption of bare wire by insulators of wire and cable is shown separately both in the distribution by industry and by State.

The aluminum and aluminum-base alloy mill shapes are subdivided as follows: Sheet, plate and foil; extruded shapes; and all other mill shapes.

For castings, consumption data are shown separately for iron, steel, aluminum and aluminum-base alloy, and copper and copper-base alloy. Forgings are shown separately for iron and steel and aluminum and aluminum-base alloy.

PIG IRON, NONFERROUS REFINERY SHAPES, AND SCRAP

Consumption of materials by the primary metal industries is represented in the tables in this section by seven commodities; pig iron and iron and steel scrap (except home scrap), aluminum and aluminum-base alloy refinery shapes and scrap (except home scrap), copper and copper-base alloy refinery shapes and scrap (except home scrap), and zinc and zinc-base alloy refinery shapes. Consumption of these materials is also reported by metal fabricators which operate foundry departments or other activities involving such consumption.

There is a certain degree of duplication in the consumption of the refinery shapes, which stems from the fact that secondary smelters and refiners consume unalloyed metal refinery shapes in order to produce alloy ingots. The consumption of refinery shapes by secondary smelters and refiners is shown separately in the distribution by industry.

INDUSTRY COVERAGE

The tables on consumption by industry include data for approximately 100 metal-fabricating industries. These represent all significant users of metal in manufacturing, and are covered by Major Group 34, "Fabricated Metal Products," through Major Group 37, "Transportation Equipment," and several additional miscellaneous industries, including Major Group 25, "Furniture and Fixtures."

Although there were other metal consuming industries from which consumption data were either not collected or the quantities reported failed publication standards, the omission of these industries affects coverage only slightly.

To relieve very small metal consumers from reporting amounts negligible in terms of total consumption, a minimum usage requirement was established. Expenditures of less than $5,000 for each shape or form were exempt from reporting both in terms of cost and quantity. It is estimated that the use of this minimum reporting requirement on the coverage of these materials would not, as a maximum, equal 2 percent of total manufacturing consumption.

When comparing consumption data with production figures, it should be noted that the consumption data cover manufacturing industries only. Consumption of these metal shapes in on-site construction, mining, farm uses, construction and maintenance of power lines, and in other nonmanufacturing areas, such as export, is not covered.

MILL SHAPES, CASTINGS, AND FORGINGS PRODUCED AND CONSUMED

Mill Shapes and Castings.—Total consumption of mill shapes and forms, castings, and forgings in the manufacture of fabricated products must necessarily include the tonnages used by metal mills and foundries in their manufacture of fabricated products within the same establishment. These data on mill shapes and castings produced and consumed within the same establishment were obtained and are reported in quantity terms only. In the table on the consumption of steel mill shapes by States (table 2A) these data for the metal producing establishments are shown in a column separate from the fabricating industries data. For copper and aluminum mill shapes and for all castings and forgings, the State tables are limited to purchased materials. The consumption data on these items reported by producing establishments could not be shown either because of disclosure or because reporting was incomplete for some industries.

Forgings.—To avoid duplication, data showing the consumption of iron and steel forgings are excluded from the totals for steel consumption since the quantities of forging stock, ingots, billets, and bars, used by the forging plants, are included in steel mill shapes and forms consumed. For this reason establishments in Industry 3391, "Iron and Steel Forgings" are classified as metal fabricators in tables 1A and 2A rather than as producers of primary metals. In like manner, establishments in Industry 3392, "Nonferrous Forgings" are classified as metal fabricators in tables 1C and 2C rather than as producers of aluminum and aluminum-base alloy mill shapes.

DEFINITION OF METAL MILL SHAPES AND FORMS

Although the inquiry on metals consumed on the 1963 census schedules did not include a definition of the metal shapes specified, the metal fabricating companies' familiarity with the terms and their meaning provided a high degree of uniformity in reporting. The term "bars and bar shapes" appearing in the tables showing steel consumption, includes hot-rolled and cold-finished bars, and tool-steel bars; "sheet and strip" includes hot- and cold-rolled, galvanized, and long ternes, but excludes tin plate, terne plate, and black plate; "wire and wire products" includes plain, galvanized, and other coated wire, as well as nails and spikes and the like; "all other carbon steel mill shapes and forms" includes

ingots, billets, wire rods, concrete reinforcing bars, tin plate, terne plate, black plate, pipe, tubing, and rails, but not forgings or materials fabricated beyond the steel mill level.

The terms copper and copper-base alloy and aluminum rolled, drawn, and extruded shapes are similar to the steel mill products listed above; i.e., sheets, bars, tubing, wire, etc. They do not include wire bars, ingots, or other unrolled forms of copper or aluminum.

The data for bare copper wire are limited to wire for electrical conduction. Data for nonelectrical copper wire are included with rod and bar. The data for copper and copper-base alloy plate, sheet, and strip also include military cups and discs.

The castings (iron and steel, etc.) reported are only those in the rough and semifinished forms in which they are usually received from foundries. Castings, which had undergone extensive machining or other operations prior to their receipt at the consuming establishment, were considered as fabricated products rather than rough castings, and are not included in these data. However, such castings are reported as consumed by the establishments performing the machining operations.

Comparable data for the year 1958 are available on pages 42 to 67 of Chapter 7, Volume I, Summary Statistics, 1958 Census of Manufactures.

The following differences should be noted between the 1958 and 1963 censuses:

1. Aluminum and aluminum-base alloy extruded shapes which are published separately for 1963 were included with "all other" aluminum mill shapes in 1958.

2. Insulated wire and cable were excluded from Volume I of the 1958 Census of Manufactures but were published in report MC58(S)-5, "Consumption of Selected Metal Mill Shapes and Forms."

3. Copper and copper-base alloy rod, bar, and mechanical wire; plate, sheet, and strip; and pipe and tube were published as a single item in 1958.

4. Minor changes were made in the list of industries for which materials consumption was measured.

TABLE 1A. Consumption of Steel Mill Shapes and Forms,

Code	Industry group and industry[1]	Total all grades		Carbon steel							
				Total		Bars, and shapes (except concrete reinforcing bars) (331010, 331011, and 331043)		Sheet and strip (331012)		Plates (331013)	
		Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)
	Steel producing and fabricating industries, total	61,477,329	(X)	57,190,445	(X)	6,357,078	(X)	26,900,056	(X)	6,173,618	(X)
	Steel producing industries, total[3]	3,364,261	(X)	2,890,959	(X)	355,685	(X)	811,488	(X)	35,994	(X)
	Steel fabricating industries, total[4]	58,113,068	10,855,519	54,299,486	9,102,423	6,001,393	1,086,465	26,088,568	4,074,695	6,137,624	912,149
25	Furniture and fixtures	1,442,072	249,166	1,384,930	232,370	(X)	(X)	1,113,393	177,128	(X)	(X)
30	Rubber and plastics products, n.e.c	92,800	38,254	92,800	38,254	(X)	(X)	(X)	(X)	(X)	(X)
32	Stone, clay and glass products	126,668	17,740	126,668	17,740	(X)	(X)	(X)	(X)	(X)	(X)
33	Primary metal industries	1,559,975	324,815	[5]968,443	[5]150,922	[5]577,850	[5]96,529	(X)	(X)	(X)	(X)
34	Fabricated metal products	24,872,522	4,566,027	23,875,620	4,084,328	1,809,571	316,124	(D)	(D)	2,878,883	418,080
35	Machinery, except electrical	7,594,847	1,718,749	6,613,295	1,205,268	1,775,942	348,505	2,128,256	359,530	(D)	(D)
36	Electrical machinery	5,031,052	985,720	4,783,170	837,117	442,129	90,112	3,464,845	571,940	168,285	24,378
37	Transportation equipment	16,762,159	2,745,466	[6]15,940,746	[6]2,420,355	[6]1,315,444	[6]218,450	[6]11,981,452	[6]1,761,099	[6]1,537,226	[6]227,443
38	Instruments and related products	127,626	50,026	113,880	31,226	(D)	(D)	53,805	12,039	7,827	1,446
39	Miscellaneous manufacturing	273,085	86,006	220,012	49,993	(X)	(X)	(X)	(X)	(X)	(X)
19	Ordnance and accessories	230,262	73,550	(D)	(D)	60,931	10,876	60,963	12,626	(D)	(D)
25	Furniture and fixtures	1,442,072	249,166	1,384,930	232,370	(X)	(X)	1,113,393	177,128	(X)	(X)
251	Household furniture	454,833	83,125	429,390	76,903	(X)	(X)	282,648	46,156	(X)	(X)
2511	Wood furniture not upholstered	18,337	3,530	16,106	2,952	(X)	(X)	(NA)	1,492	(X)	(X)
2514	Metal household furniture	365,313	66,137	343,383	60,887	(X)	(X)	234,975	37,657	(X)	(X)
2515	Mattresses and bedsprings	71,183	13,458	69,901	13,064	(X)	(X)	38,536	7,007	(X)	(X)
252	Office furniture	339,291	53,776	327,484	51,749	(X)	(X)	303,923	46,560	(X)	(X)
2521	Wood office furniture	3,883	919	3,755	783	(X)	(X)	(NA)	100	(X)	(X)
2522	Metal office furniture	335,408	52,857	323,729	50,966	(X)	(X)	303,270	46,460	(X)	(X)
2531	Public building furniture	95,776	17,785	94,324	16,952	(X)	(X)	70,080	12,345	(X)	(X)
254	Partitions and fixtures	440,985	72,602	428,427	67,649	(X)	(X)	397,573	60,982	(X)	(X)
2541	Wood partitions and fixtures	11,252	3,117	8,146	1,546	(X)	(X)	(NA)	716	(X)	(X)
2542	Metal partitions and fixtures	429,733	69,485	420,281	66,103	(X)	(X)	392,906	60,266	(X)	(X)
259	Furniture and fixtures, n.e.c	111,187	21,878	105,305	19,117	(X)	(X)	59,169	11,085	(X)	(X)
2591	Venetian blinds and shades	84,526	15,659	81,291	15,030	(X)	(X)	45,566	8,756	(X)	(X)
2599	Furniture and fixtures, n.e.c.	26,661	6,219	24,014	4,087	(X)	(X)	(NA)	2,329	(X)	(X)
30	Rubber and plastics products, n.e.c	92,800	38,254	92,800	38,254	(X)	(X)	(X)	(X)	(X)	(X)
3011	Tires and inner tubes	68,373	25,962	68,373	25,962	(X)	(X)	(X)	(X)	(X)	(X)
3031	Reclaimed rubber and rubber products, n.e.c	24,427	12,292	24,427	12,292	(X)	(X)	(X)	(X)	(X)	(X)
32	Stone, clay and glass products	126,668	17,740	126,668	17,740	(X)	(X)	(X)	(X)	(X)	(X)
3271	Concrete block and brick	8,743	1,224	8,743	1,224	(X)	(X)	(X)	(X)	(X)	(X)
3272	Other concrete products	117,925	16,516	117,925	16,516	(X)	(X)	(X)	(X)	(X)	(X)
33	Primary metal industries	1,559,975	324,815	[5]968,442	[5]150,922	[5]577,850	[5]96,529	(X)	(X)	(X)	(X)
3391	Iron and steel forgings	1,536,182	311,736	968,442	150,922	577,850	96,529	(X)	(X)	(X)	(X)
3392	Nonferrous forgings	23,793	13,079	(D)	(D)	(D)	(D)	(X)	(X)	(X)	(X)
34	Fabricated metal products	24,872,522	4,566,027	23,875,620	4,084,328	1,809,571	316,124	(D)	(D)	2,878,883	418,080
3411	Metal cans	4,623,028	941,743	4,622,688	941,566	(D)	(D)	(D)	(D)	(X)	(X)
342	Cutlery, hand tools, hardware	1,136,941	271,237	1,036,698	200,260	(D)	(D)	722,684	134,783	(D)	(D)
3421	Cutlery	28,343	13,443	21,249	6,875	4,300	773	14,216	5,450	(D)	(D)
3423	Hand and edge tools	203,598	45,142	162,328	32,396	91,726	17,165	60,088	11,858	967	236
3425	Hand saws and saw blades	22,864	19,682	12,401	6,862	(D)	(D)	8,003	5,190	777	244
3429	Hardware, n.e.c	882,136	192,970	840,720	154,127	89,486	16,397	640,377	112,285	3,857	642

See footnotes at end of table.

by Selected Industry Groups and Industries: 1963

Carbon steel—Continued						Alloy steel								Code
Structural shapes (331015)		Wire and wire products (331017)		All other mill shapes and forms (331001, 331009, 331018, 331019, 331041, and 331042)		Total		Bar and bar shapes (except stainless) (331021 and 331046)		All other mill shapes and forms (except stainless) (331020, 331029, 331044, and 331045)		Stainless steel mill shapes and forms (331031, 331047, 331048, and 331049)		
Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	
4,126,464	(X)	3,113,558	(X)	10,519,671	(X)	4,286,884	(X)	1,838,700	(X)	1,911,935	(X)	536,249	(X)	
202,790	(X)	583,392	(X)	901,610	(X)	473,302	(X)	52,767	(X)	397,081	(X)	23,454	(X)	
3,923,674	598,430	2,530,166	572,592	9,618,061	1,858,092	3,813,582	1,753,096	1,785,933	515,947	1,514,854	586,576	512,795	650,573	
(X)	(X)	(X)	(X)	271,537	55,242	57,142	16,796	(X)	(X)	49,630	8,800	7,512	7,996	25
(X)	(X)	92,800	38,254	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	30
(X)	(X)	(X)	(X)	126,668	17,740	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	32
(X)	(X)	(X)	(X)	[5]390,592	[5]54,393	[5]567,740	[5]160,814	[5]351,519	[5]85,228	[5]201,157	[5]58,035	[5]15,064	[5]17,551	33
2,837,900	418,226	(D)	(D)	7,199,060	1,358,834	996,902	481,699	339,988	79,947	439,009	139,356	217,905	262,396	34
(D)	(D)	(D)	(D)	541,186	130,190	981,552	513,481	(D)	(D)	(D)	(D)	108,053	149,664	35
48,560	12,972	308,293	61,117	351,058	76,598	247,882	148,603	3,496	2,981	206,597	97,466	37,789	48,156	36
[6]491,959	[6]75,218	[6]167,676	[6]40,749	[6]446,989	[6]97,396	[6]816,576	[6]320,577	[6]572,473	[6]135,842	[6]165,213	[6]75,936	[6]78,890	[6]108,799	37
2,189	550	(D)	(D)	(D)	(D)	13,746	18,800	(D)	(D)	(D)	(D)	9,837	15,606	38
(X)	(X)	(X)	(X)	220,012	49,993	53,073	36,013	(X)	(X)	25,800	11,099	27,273	24,914	39
(D)	(D)	2,106	792	38,069	6,953	(D)	(D)	24,584	14,288	(D)	(D)	8,924	13,198	19
(X)	(X)	(X)	(X)	271,537	55,242	57,142	16,796	(X)	(X)	49,630	8,800	7,512	7,996	25
(X)	(X)	(X)	(X)	146,742	30,747	25,443	6,222	(X)	(X)	(D)	(D)	(D)	(D)	251
(X)	(X)	(X)	(X)	(NA)	1,460	2,231	578	(X)	(X)	(NA)	359	(NA)	219	2511
(X)	(X)	(X)	(X)	108,408	23,230	21,930	5,250	(X)	(X)	(NA)	3,616	1,536	1,634	2514
(X)	(X)	(X)	(X)	31,365	6,057	1,282	394	(X)	(X)	(D)	(D)	(D)	(D)	2515
(X)	(X)	(X)	(X)	23,561	5,189	11,807	2,027	(X)	(X)	11,400	1,594	407	433	252
(X)	(X)	(X)	(X)	(NA)	683	129	136	(X)	(X)	(X)	(X)	(NA)	136	2521
(X)	(X)	(X)	(X)	20,459	4,506	11,679	1,891	(X)	(X)	11,400	1,594	(NA)	297	2522
(X)	(X)	(X)	(X)	24,244	4,607	1,452	833	(X)	(X)	1,214	580	(NA)	253	2531
(X)	(X)	(X)	(X)	30,854	6,667	12,558	4,953	(X)	(X)	9,491	1,746	3,067	3,207	254
(X)	(X)	(X)	(X)	(NA)	830	3,106	1,571	(X)	(X)	(NA)	605	(NA)	966	2541
(X)	(X)	(X)	(X)	(NA)	5,837	9,452	3,382	(X)	(X)	(NA)	1,141	(NA)	2,241	2542
(X)	(X)	(X)	(X)	46,136	8,032	5,882	2,761	(X)	(X)	(D)	(D)	(D)	(D)	259
(X)	(X)	(X)	(X)	35,725	6,274	3,235	629	(X)	(X)	(D)	(D)	(D)	(D)	2591
(X)	(X)	(X)	(X)	(NA)	1,758	2,647	2,132	(X)	(X)	(NA)	148	1,810	1,984	2599
(X)	(X)	92,800	38,254	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	30
(X)	(X)	68,373	25,962	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	3011
(X)	(X)	24,427	12,292	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	3031 3069
(X)	(X)	(X)	(X)	126,668	17,740	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	32
(X)	(X)	(X)	(X)	(NA)	1,224	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	3271
(X)	(X)	(X)	(X)	117,925	16,516	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	3272
(X)	(X)	(X)	(X)	[5]390,592	[5]54,393	[5]567,740	[5]160,814	[5]351,519	[5]85,228	[5]201,157	[5]58,035	[5]15,064	[5]17,551	33
(X)	(X)	(X)	(X)	390,592	54,393	567,740	160,814	351,519	85,228	201,157	58,035	15,064	17,551	3391
(X)	(X)	(X)	(X)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3392
2,837,900	418,226	(D)	(D)	7,199,060	1,358,834	996,902	481,699	339,988	79,947	439,009	139,356	217,905	262,396	34
(X)	(X)	3,353	1,090	(D)	(D)	340	177	(X)	(X)	(D)	(D)	(D)	(D)	3411
(X)	(X)	(D)	(D)	22,063	7,336	100,243	70,977	41,366	13,031	13,739	13,694	45,138	44,252	342
(X)	(X)	341	109	(D)	(D)	7,094	6,568	(D)	(D)	(D)	(D)	6,732	6,405	3421
(X)	(X)	4,828	1,549	4,719	1,588	41,270	12,746	37,330	10,233	3,413	1,959	527	554	3423
(X)	(X)	(D)	(D)	(D)	(D)	10,463	12,820	(D)	(D)	(D)	(D)	19	29	3425
(X)	(X)	92,286	19,859	14,714	4,944	41,416	38,843	(X)	(X)	3,556	1,579	37,860	37,264	3429

TABLE 1A. Consumption of Steel Mill Shapes and Forms,

Code	Industry group and industry[1]	Total all grades		Carbon steel							
				Total		Bars, and shapes (except concrete reinforcing bars) (331010, 331011, and 331043)		Sheet and strip (331012)		Plates (331013)	
		Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)
343	Plumbing and heating, except electric	543,912	100,682	524,404	85,750	12,198	2,209	431,636	68,817	(D)	(D)
3431	Metal plumbing fixtures	64,676	15,891	58,785	9,285	897	178	55,738	8,681	(D)	(D)
3432	Plumbing fittings, brass goods	15,995	5,230	13,630	3,191	(X)	(X)	4,285	844	1,105	190
3433	Heating equipment, except electric	463,241	79,561	451,989	73,274	11,301	2,031	371,613	59,292	49,279	6,954
344	Structural metal products	10,712,799	1,691,901	10,463,033	1,566,717	(D)	(D)	2,546,365	418,178	2,639,549	383,479
3441	Fabricated structural steel	4,562,760	676,937	4,518,950	663,899	362,049	53,253	311,505	48,390	969,636	142,951
3442	Metal doors, sash, and trim	368,852	66,459	356,785	57,599	(D)	(D)	269,792	42,948	2,911	474
3443	Boiler shop products	2,411,265	427,599	2,278,120	354,700	67,165	11,364	377,261	56,595	1,500,821	215,802
3444	Sheet metal work	1,298,054	238,871	1,254,140	213,890	36,620	6,475	1,077,905	184,970	83,968	11,896
3446	Architectural metal work	203,040	35,111	200,439	33,674	44,400	7,796	79,246	12,598	19,111	2,952
3449	Miscellaneous metal work, n.e.c	1,868,828	246,924	1,854,599	242,955	222,617	32,124	430,656	72,677	63,102	9,404
345	Screw machine products, bolts, etc	1,537,179	339,466	1,396,610	274,182	529,652	106,756	133,965	23,944	22,296	2,468
3451	Screw machine products	261,555	73,835	237,019	58,441	225,631	55,658	2,864	596	376	74
3452	Bolts, nuts, rivets, and washers	1,275,624	265,631	1,159,591	215,741	304,021	51,098	131,101	23,348	21,920	2,394
3461	Metal stampings	3,102,909	579,871	2,936,219	477,886	111,749	18,978	2,167,494	335,917	106,281	14,988
3481	Fabricated wire products, n.e.c.	1,134,779	257,518	1,108,346	239,719	30,458	5,440	137,110	24,798	(X)	(X)
349	Fabricated metal products, n.e.c	2,080,975	383,609	1,787,622	298,248	186,628	33,023	1,140,763	172,899	(D)	(D)
3491	Metal barrels, drums, and pails	811,569	121,623	807,366	118,580	3,484	533	727,154	106,280	(D)	(D)
3493	Steel springs	335,738	61,727	129,075	25,916	65,537	11,009	49,616	8,934	(X)	(X)
3494	Valves and pipe fittings	219,192	60,327	182,760	35,909	61,795	11,707	39,618	6.616	26,782	4,457
3498	Fabricated pipe and fittings	254,720	60,771	240,362	47,722	14,425	3,284	21,246	3,227	3,549	679
3499	Fabricated metal products, n.e.c	459,756	79,161	428,059	70,121	41,387	6,490	303,129	47,842	23,460	3,548
35	Machinery, except electrical	7,594,847	1,718,749	6,613,295	1,205,268	1,775,942	348,505	2,128,256	359,530	(D)	(D)
351	Engines and turbines	233,879	59,628	205,815	38,108	42,567	8,620	60,918	13,002	85,908	11,846
3511	Steam engines and turbines	123,291	34,021	108,464	17,866	9,969	1,849	18,569	3,746	70,863	9,611
3519	Internal combustion engines	110,588	25,607	97,351	20,242	32,598	6,771	42,349	9,256	15,045	2,235
3522	Farm machinery and equipment	1,674,597	273,007	1,610,393	253,759	551,790	87,412	705,426	104,148	111,960	16,842
353	Construction and like equipment	2,214,441	395,663	1,976,391	327,330	463,593	78,829	237,966	36,702	763,991	112,991
3531	Construction machinery	1,201,638	202,051	1,097,557	176,305	271,945	43,949	103,966	16,092	506,170	74,131
3532	Mining machinery and equipment	115,536	21,622	98,030	16,249	21,917	4,463	5,734	955	46,244	6,841
3533	Oil field machinery	257,515	57,630	154,438	28,224	50,005	9,232	-	-	44,780	6,811
3534	Elevators and moving stairways	88,797	17,537	87,329	16,563	18,516	3,281	20,199	3,481	8,868	1,439
3535	Conveyors	221,200	40,427	214,665	36,328	42,897	7,562	57,475	8,844	37,870	5,604
3536	Hoists, cranes, and monorails	152,047	26,641	149,737	25,412	15,836	3,142	7,198	979	65,967	10,441
3537	Industrial trucks and tractors	177,708	29,755	174,635	28,249	42,477	7,200	43,394	6,351	54,092	7,724
354	Metalworking machinery	635,728	208,575	543,912	122,868	185,046	53,193	78,415	14,599	229,131	40,015
3541	Metal-cutting machine tools	95,305	28,059	73,788	18,198	37,391	10,485	7,734	1,388	20,023	3,461
3542	Metal-forming machine tools	122,499	25,525	116,149	21,064	23,264	6,159	3,632	1,124	86,506	13,008
3544	Special dies and tools	216,234	76,738	190,718	49,678	64,308	21,917	45,049	7,934	66,201	14,346
3545	Machine tool accessories	61,504	48,979	41,180	12,058	32,907	8,962	1,793	604	2,105	725
3548	Metalworking machinery, n.e.c.	140,186	29,274	122,077	21,870	27,176	5,670	20,207	3,549	54,296	8,475
355	Special industry machinery	568,351	167,694	514,294	113,508	178,016	42,502	114,052	22,807	126,215	21,607
3551	Food products machinery	113,359	34,530	98,905	19,764	26,494	6,713	35,337	5,927	18,427	2,906
3552	Textile machinery	89,327	29,624	84,547	23,683	41,487	10,080	24,379	5,391	(X)	(X)
3553	Woodworking machinery	55,301	15,765	52,018	12,478	19,343	4,399	17,669	4,674	10,284	1,890
3554	Paper industries machinery	56,497	21,272	48,926	10,528	19,848	4,847	(X)	(X)	21,866	3,691
3555	Printing trades machinery	29,424	9,365	26,770	7,519	18,215	5,057	2,401	527	2,530	642
3559	Special industry machinery, n.e.c	224,443	57,138	203,128	39,536	52,629	11,406	34,266	6,288	73,108	12,478

See footnotes at end of table.

by Selected Industry Groups and Industries: 1963–Continued

Carbon steel—Continued						Alloy steel								Code
Structural shapes (331015)		Wire and wire products (331017)		All other mill shapes and forms (331001, 331009, 331018, 331019, 331041, and 331042)		Total		Bar and bar shapes (except stainless) (331021 and 331046)		All other mill shapes and forms (except stainless) (331020, 331029, 331044, and 331045)		Stainless steel mill shapes and forms (331031, 331047, 331048, and 331049)		
Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	
2,967	594	1,726	559	(D)	(D)	19,508	14,932	(D)	(D)	(D)	(D)	9,719	11,738	343
(X)	(X)	(X)	(X)	(D)	(D)	5,891	6,606	1,117	148	-	-	4,774	6,458	3431
(X)	(X)	(X)	(X)	8,240	2,157	2,365	2,039	(D)	(D)	(D)	(D)	2,019	1,890	3432
2,967	594	1,726	559	15,103	3,844	11,252	6,287	663	227	7,663	2,670	2,926	3,390	3433
2,770,594	407,707	118,170	20,009	(D)	(D)	249,766	125,184	(D)	(D)	(D)	(D)	49,520	65,466	344
2,432,411	354,570	37,106	6,103	406,243	58,632	43,810	13,038	9,908	1,671	30,750	7,402	3,152	3,965	3441
21,741	3,507	2,172	715	(D)	(D)	12,067	8,860	(D)	(D)	(D)	(D)	7,586	7,763	3442
165,278	24,769	11,799	2,274	155,796	43,896	133,145	72,899	4,701	1,739	105,681	38,102	22,763	33,058	3443
34,977	5,939	2,602	794	18,068	3,816	43,914	24,981	1,010	262	28,458	6,078	14,446	18,641	3444
36,598	6,129	3,715	823	17,369	3,376	2,601	1,437	1,275	283	639	380	687	774	3446
79,589	12,793	60,776	9,300	997,859	106,657	14,229	3,969	3,255	679	10,088	2,025	886	1,265	3449
(X)	(X)	658,727	129,149	51,970	11,865	140,569	65,284	69,057	20,175	49,885	16,246	21,627	28,863	345
(X)	(X)	4,842	1,108	3,306	1,005	24,536	15,394	17,259	6,056	960	944	6,317	8,394	3451
(X)	(X)	653,885	128,041	48,664	10,860	116,033	49,890	51,798	14,119	48,925	15,302	15,310	20,469	3452
14,495	2,882	43,843	8,573	492,357	96,548	166,690	101,985	4,561	3,044	95,166	24,914	66,963	74,027	3461
2,536	554	908,400	201,780	29,842	7,147	26,433	17,799	14,061	3,338	7,220	4,208	5,152	10,253	3481
47,308	6,489	31,712	9,862	(D)	(D)	293,353	85,361	(D)	(D)	86,629	22,733	(D)	(D)	349
(D)	(D)	10,791	1,824	(D)	(D)	4,203	3,043	-	-	(D)	(D)	(D)	(D)	3491
(X)	(X)	11,659	5,416	2,263	557	206,663	35,811	(D)	(D)	(D)	(D)	207	452	3493
(X)	(X)	(X)	(X)	54,565	13,129	36,432	24,418	15,067	4,323	9,008	3,585	12,357	16,510	3494
(D)	(D)	858	346	(D)	(D)	14,358	13,049	1,521	808	10,005	6,850	2,832	5,391	3498
15,585	2,278	8,404	2,276	36,094	7,687	31,697	9,040	2,413	1,104	26,500	4,423	2,784	3,513	3499
(D)	(D)	(D)	(D)	541,186	130,190	981,552	513,481	(D)	(D)	(D)	(D)	108,053	149,664	35
7,665	1,262	(D)	(D)	(D)	(D)	28,064	21,520	13,329	5,223	5,940	4,923	8,795	11,374	351
4,380	687	(D)	(D)	(D)	(D)	14,827	16,155	3,650	2,350	4,020	4,113	7,157	9,692	3511
3,285	575	1,288	441	2,786	964	13,237	5,365	9,679	2,873	1,920	810	1,638	1,682	3519
81,054	12,213	23,194	4,848	136,969	28,296	64,204	19,248	48,651	10,879	12,726	4,147	2,827	4,222	3522
293,741	46,955	10,228	5,546	206,872	46,307	238,050	68,333	133,827	34,378	98,001	25,646	6,222	8,309	353
115,418	17,958	5,335	2,855	94,723	21,320	104,081	25,746	48,590	11,784	55,077	13,403	414	559	3531
15,484	2,353	281	85	8,370	1,552	17,506	5,373	8,665	2,519	8,173	1,935	668	919	3532
32,141	5,109	-	-	27,512	7,072	103,077	29,406	75,025	19,514	26,207	7,273	1,845	2,619	3533
17,356	2,700	1,380	977	21,010	4,685	1,468	974	-	-	880	251	588	723	3534
46,670	7,994	1,723	902	28,030	5,422	6,535	4,099	-	-	4,361	1,356	2,174	2,743	3535
47,407	7,250	1,127	644	12,202	2,956	2,310	1,229	1,547	561	669	521	94	147	3536
19,265	3,591	382	83	15,025	3,300	3,073	1,506	-	-	2,634	907	439	599	3537
24,103	5,480	3,611	1,566	23,606	8,015	91,816	85,707	64,750	62,445	23,910	18,620	3,156	4,642	354
3,612	1,087	(NA)	87	4,827	1,690	21,517	9,861	17,591	6,906	3,472	2,199	454	756	3541
2,027	403	(NA)	71	556	299	6,350	4,461	3,978	2,836	1,787	926	585	699	3542
6,053	1,657	449	326	8,658	3,498	25,516	27,060	15,960	19,417	7,791	5,296	1,765	2,347	3544
881	282	469	181	3,025	1,304	20,324	36,921	14,955	28,732	5,246	7,963	123	226	3545
11,530	2,051	2,328	901	6,540	1,224	18,109	7,404	12,266	4,554	5,614	2,236	229	614	3548
46,528	8,713	9,781	6,645	39,702	11,234	54,057	54,186	10,457	4,856	16,659	8,376	26,941	40,954	355
12,227	2,159	(X)	(X)	6,420	2,059	14,454	14,766	(X)	(X)	4,061	1,583	10,393	13,183	3551
9,526	1,914	5,965	4,992	3,190	1,306	4,780	5,941	(X)	(X)	2,127	1,149	2,653	4,792	3552
(X)	(X)	(X)	(X)	4,722	1,515	3,283	3,287	(X)	(X)	3,110	2,685	173	602	3553
(X)	(X)	(X)	(X)	7,212	1,990	7,571	10,744	(X)	(X)	2,386	1,090	5,185	9,654	3554
1,736	449	(NA)	37	1,834	807	2,654	1,846	1,799	776	442	166	413	904	3555
23,039	4,191	3,762	1,616	16,324	3,557	21,315	17,602	8,658	4,080	4,533	1,703	8,124	11,819	3559

TABLE 1A. Consumption of Steel Mill Shapes and Forms,

Code	Industry group and industry[1]	Total all grades		Carbon steel							
				Total		Bars, and shapes (except concrete reinforcing bars) (331010, 331011, and 331043)		Sheet and strip (331012)		Plates (331013)	
		Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)
35	Machinery, except electrical—Continued										
356	General industrial machinery....	1,194,480	348,662	777,692	156,670	182,221	39,192	328,528	59,540	(D)	(D)
3561	Pumps and compressors.....	167,142	42,343	145,142	29,405	38,893	8,716	33,058	5,651	34,246	5,552
3562	Ball and roller bearings.....	432,178	166,399	112,474	28,398	13,210	4,479	68,378	13,105	3,837	505
3564	Blowers and fans.....	118,215	21,527	113,744	19,115	10,114	1,925	72,286	11,437	19,479	2,853
3565	Industrial patterns.....	2,467	732	2,090	485	579	155	116	36	(D)	(D)
3566	Power transmission equipment..	262,738	63,996	208,601	43,927	78,833	16,472	85,047	18,067	29,926	4,682
3567	Industrial furnaces and ovens.	78,015	20,645	73,132	12,356	(X)	(X)	38,701	5,983	18,885	3,202
3569	General industry machines, n.e.c.....	133,725	33,020	122,509	22,984	40,592	7,445	30,942	5,261	21,982	3,708
357	Office machines, n.e.c.....	132,632	37,442	127,078	31,999	23,381	6,615	80,941	18,132	(X)	(X)
3571	Computing and related machines	41,038	13,462	37,727	10,197	11,032	3,248	22,944	5,571	(X)	(X)
3572	Typewriters.....	29,112	7,843	28,478	7,380	5,864	1,464	20,177	5,265	(X)	(X)
3576	Scales and balances.....	32,126	6,107	31,550	5,416	2,098	536	22,545	3,465	(X)	(X)
3579	Office machines, n.e.c.....	30,356	10,030	29,323	9,006	4,387	1,367	15,275	3,831	(X)	(X)
358	Service industry machines.....	633,598	144,510	596,537	107,682	45,979	9,886	460,709	79,928	52,706	8,692
3581	Automatic vending machines....	63,369	14,081	60,383	10,722	1,362	338	58,009	10,099	189	56
3582	Commercial laundry equipment..	30,459	8,335	28,053	5,543	5,173	1,055	14,255	2,341	4,687	898
3585	Refrigeration machinery.....	464,049	97,422	443,893	79,204	27,134	5,080	347,565	60,963	44,339	7,035
3586	Measuring and dispensing pumps	26,646	6,371	25,823	5,196	8,169	2,154	13,478	2,229	1,137	148
3589	Service industry machines, n.e.c.....	49,075	18,301	38,385	7,017	4,141	1,259	27,402	4,296	2,354	555
3599	Miscellaneous machinery.....	307,141	83,568	261,183	53,344	103,349	22,256	61,301	10,672	36,974	6,317
36	Electrical machinery.....	5,031,052	985,720	4,783,170	837,117	442,129	90,112	3,464,845	571,940	168,285	24,378
361	Electric distribution products..	623,139	147,259	506,991	99,203	29,780	5,466	373,277	74,802	65,436	8,703
3611	Electric measuring instruments	14,345	5,037	9,995	2,552	919	540	8,759	1,631	90	27
3612	Transformers.....	350,353	96,565	241,858	53,053	8,021	1,388	164,036	39,325	48,301	6,527
3613	Switchgear and switchboards...	258,441	45,657	255,138	43,598	20,840	3,538	200,482	33,846	17,045	2,149
362	Electric industrial apparatus...	1,103,335	221,654	1,068,257	190,786	118,302	25,861	599,348	106,277	56,496	8,755
3621	Motors and generators.....	755,034	145,970	737,962	134,782	99,561	21,648	546,804	95,628	55,441	8,545
3622	Industrial controls.....	48,222	11,376	45,221	8,983	8,743	1,810	29,788	5,613	1,055	210
3623	Electric welding apparatus....	300,079	64,308	285,074	47,021	9,998	2,403	22,756	5,036	(X)	(X)
363	Household appliances.....	1,830,207	315,679	1,801,378	292,332	(D)	(D)	(D)	(D)	(D)	(D)
3631	Household cooking equipment...	256,614	47,209	252,922	42,410	1,410	438	244,929	40,316	(D)	(D)
3632	Household refrigerators.....	676,736	109,852	672,465	106,245	(D)	(D)	640,615	98,536	(D)	(D)
3633	Household laundry equipment...	430,942	69,795	429,699	68,359	23,934	5,219	397,854	60,543	-	-
3634	Electric housewares and fans..	133,091	33,311	116,468	22,664	7,152	2,000	102,250	17,508	(D)	(D)
3635	Household vacuum cleaners.....	23,232	4,942	22,504	4,544	1,123	248	16,734	3,156	-	-
3636	Sewing machines.....	10,170	3,150	9,986	3,000	5,770	1,623	(D)	(D)	(D)	(D)
3639	Household appliances, n.e.c...	299,422	47,420	297,334	45,110	497	111	276,279	38,881	4,360	662
364	Lighting and wiring devices.....	(D)	(D)	(D)	(D)	86,835	14,108	(D)	(D)	32,212	3,699
3641	Electric lamps.....	(D)	(D)	(D)	(D)	(X)	(X)	(D)	(D)	(X)	(X)
3642	Lighting fixtures.....	321,745	55,895	313,626	50,360	4,118	876	247,732	39,515	32,212	3,699
3643	Current carrying devices.....	33,257	11,002	25,831	7,331	1,616	804	17,000	3,721	(X)	(X)
3644	Noncurrent carrying devices...	518,372	81,090	514,359	79,885	81,101	12,428	238,792	34,130	(X)	(X)
3651	Radio and TV receiving sets.....	62,405	13,277	59,971	12,171	2,500	485	49,670	10,155	(X)	(X)
366	Communication equipment.....	178,575	44,437	162,603	31,094	(D)	(D)	101,570	15,293	(X)	(X)
3661	Telephone; telegraph apparatus	122,355	25,995	112,294	17,567	19,489	3,755	85,584	12,085	(X)	(X)
3662	Radio, TV communications equipment.....	56,220	18,442	50,309	13,527	(D)	(D)	15,986	3,208	(X)	(X)
367	Electronic components.....	(D)	(D)	(D)	(D)	4,197	1,325	42,161	11,493	(X)	(X)
3671	Electron tubes, receiving type	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(X)	(X)
3672	Cathode ray picture tubes.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(X)	(X)
3673	Electron tubes, transmitting..	431	773	263	105	(D)	(D)	(D)	(D)	(X)	(X)
3674	Semiconductors.....	2,638	4,033	1,529	723	(D)	(D)	(D)	(D)	(X)	(X)
3679	Electronic components, n.e.c..	84,889	32,139	60,437	17,823	3,927	1,182	40,553	9,797	(X)	(X)
369	Electrical products, n.e.c.....	270,030	55,647	266,573	53,696	118,289	24,671	116,554	17,599	(D)	(D)
3694	Engine electrical equipment...	265,813	53,683	263,775	52,752	118,289	24,671	116,554	17,599	(D)	(D)
3699	Electrical products, n.e.c....	4,217	1,964	2,798	944	(X)	(X)	(X)	(X)	(X)	(X)

See footnotes at end of table.

by Selected Industry Groups and Industries: 1963–Continued

Carbon steel—Continued						Alloy steel								Code
Structural shapes (331015)		Wire and wire products (331017)		All other mill shapes and forms (331001, 331009, 331018, 331019, 331041, and 331042)		Total		Bar and bar shapes (except stainless) (331021 and 331046)		All other mill shapes and forms (except stainless) (331020, 331029, 331044, and 331045)		Stainless steel mill shapes and forms (331031, 331047, 331048, and 331049)		
Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	
(D)	(D)	27,961	11,332	(D)	(D)	416,788	191,992	(D)	(D)	(D)	(D)	(D)	(D)	356
12,095	2,066	(X)	(X)	26,850	7,420	22,000	12,938	12,854	4,014	3,372	1,618	5,774	7,306	3561
(D)	(D)	22,307	8,610	(D)	(D)	319,704	138,001	138,307	52,274	180,190	83,958	1,207	1,769	3562
4,530	728	794	359	6,541	1,813	4,471	2,412	297	174	3,251	894	923	1,344	3564
(D)	(D)	(X)	(X)	(D)	(D)	377	247	(D)	(D)	(D)	(D)	(D)	(D)	3565
3,694	818	3,319	1,593	7,782	2,295	54,137	20,069	35,615	9,906	16,938	8,193	1,584	1,970	3566
9,121	1,547	(X)	(X)	6,425	1,624	4,883	8,289	(X)	(X)	1,101	933	3,782	7,356	3567
13,285	2,504	1,541	770	14,167	3,296	11,216	10,036	3,376	1,405	3,313	1,605	4,527	7,026	3569
6,771	1,545	7,759	3,168	8,226	2,539	5,554	5,443	(X)	(X)	3,827	2,978	1,727	2,465	357
1,409	360	228	289	2,114	729	3,311	3,265	(X)	(X)	2,507	2,046	804	1,219	3571
(D)	(D)	1,678	350	(D)	(D)	634	463	(X)	(X)	512	297	122	166	3572
4,676	908	133	46	2,098	461	576	691	(X)	(X)	144	118	432	573	3576
(D)	(D)	5,720	2,483	(D)	(D)	1,033	1,024	(X)	(X)	664	517	369	507	3579
13,219	2,696	2,381	977	21,543	5,503	37,061	36,828	1,135	378	(D)	(D)	(D)	(D)	358
241	60	(X)	(X)	582	169	2,986	3,359	-	-	295	238	2,691	3,121	3581
1,695	538	(X)	(X)	2,243	711	2,406	2,792	-	-	(D)	(D)	(D)	(D)	3582
8,362	1,617	2,381	977	14,112	3,532	20,156	18,218	1,065	353	5,079	1,752	14,012	16,113	3585
1,430	180	(X)	(X)	1,609	485	823	1,175	70	25	33	32	720	1,118	3586
1,491	301	(X)	(X)	2,997	606	10,690	11,284	-	-	1,931	1,360	8,759	9,924	3589
23,395	4,186	5,206	2,723	30,958	7,190	45,958	30,224	23,795	6,363	10,124	6,079	12,039	17,782	3599
48,560	12,972	308,293	61,117	351,058	76,598	247,882	148,603	3,496	2,981	206,597	97,466	37,789	48,156	36
(D)	(D)	(D)	(D)	(D)	(D)	116,148	48,056	42	71	114,026	45,705	2,080	2,280	361
(D)	(D)	(D)	(D)	(D)	(D)	4,350	2,485	42	71	3,745	1,651	563	763	3611
11,593	1,735	(X)	(X)	9,907	4,078	108,495	43,512	(X)	(X)	107,615	42,690	880	822	3612
10,406	2,222	(X)	(X)	6,365	1,843	3,303	2,059	(X)	(X)	2,666	1,364	637	695	3613
4,746	1,250	250,074	39,660	39,291	8,983	35,078	30,868	(X)	(X)	20,691	11,789	14,387	19,079	362
(X)	(X)	13,905	3,477	22,251	5,484	17,072	11,188	(X)	(X)	12,854	6,732	4,218	4,456	3621
2,543	608	(X)	(X)	3,092	742	3,001	2,393	(X)	(X)	1,662	488	1,339	1,905	3622
2,203	642	236,169	36,183	13,948	2,757	15,005	17,287	(X)	(X)	6,175	4,569	8,830	12,718	3623
1,108	185	14,059	4,175	45,878	13,942	28,829	23,347	499	277	17,233	10,046	11,097	13,024	363
(D)	(D)	3,448	785	(D)	(D)	3,692	4,799	(D)	(D)	(D)	(D)	(D)	(D)	3631
(D)	(D)	5,691	1,036	(D)	(D)	4,271	3,607	(D)	(D)	(D)	(D)	(D)	(D)	3632
-	-	1,437	725	6,474	1,872	1,243	1,436	-	-	-	-	1,243	1,436	3633
-	-	1,745	550	(D)	(D)	16,623	10,647	(D)	(D)	(D)	(D)	2,017	2,469	3634
(D)	(D)	(D)	(D)	(D)	(D)	728	398	(D)	(D)	(D)	(D)	(D)	(D)	3635
-	-	(D)	(D)	(D)	(D)	184	150	(D)	(D)	(D)	(D)	-	-	3636
(D)	(D)	(D)	(D)	(D)	(D)	2,088	2,310	(D)	(D)	(D)	(D)	1,738	1,980	3639
4,327	899	16,507	5,205	210,411	36,299	19,558	10,411	154	216	(D)	(D)	(D)	(D)	364
(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	3641
4,327	899	3,609	1,059	21,628	4,312	8,119	5,535	154	216	5,746	3,091	2,219	2,228	3642
(X)	(X)	5,681	2,398	1,534	408	7,426	3,671	(X)	(X)	6,645	2,699	781	972	3643
(X)	(X)	7,217	1,748	187,249	31,579	4,013	1,205	(X)	(X)	(D)	(D)	(D)	(D)	3644
(X)	(X)	(X)	(X)	7,801	1,531	2,434	1,106	(X)	(X)	2,202	703	232	403	3651
(D)	(D)	(D)	(D)	(D)	(D)	15,972	13,343	(D)	(D)	(D)	(D)	(D)	(D)	366
(X)	(X)	(X)	(X)	7,221	1,727	10,061	8,428	(D)	(D)	(D)	(D)	(D)	(D)	3661
(D)	(D)	(D)	(D)	(D)	(D)	5,911	4,915	1,362	588	2,565	1,153	1,984	3,174	3662
870	321	7,994	3,300	(D)	(D)	26,406	19,521	(D)	(D)	23,393	14,588	(D)	(D)	367
-	-	(D)	(D)	-	-	(D)	(D)	-	-	(D)	(D)	(D)	(D)	3671
(D)	(D)	(X)	(X)	(X)	(X)	(D)	(D)	(D)	(D)	-	-	(D)	(D)	3672
(D)	(D)	-	-	(D)	(D)	168	668	(D)	(D)	(D)	(D)	146	552	3673
(D)	(D)	(D)	(D)	(D)	(D)	1,109	3,310	(D)	(D)	(D)	(D)	(D)	(D)	3674
825	272	7,860	2,979	7,272	3,593	24,452	14,316	700	464	22,200	11,488	1,552	2,364	3679
(X)	(X)	11,614	6,905	(D)	(D)	3,457	1,951	(X)	(X)	2,632	1,075	825	876	369
(X)	(X)	11,614	6,905	(D)	(D)	2,038	931	(X)	(X)	1,701	509	337	422	3694
(X)	(X)	(X)	(X)	2,798	944	1,419	1,020	(X)	(X)	931	566	488	454	3699

TABLE 1A. Consumption of Steel Mill Shapes and Forms,

Code	Industry group and industry[1]	Total all grades		Carbon steel							
				Total		Bars, and shapes (except concrete reinforcing bars) (331010, 331011, and 331043)		Sheet and strip (331012)		Plates (331013)	
		Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)
37	Transportation equipment....	16,762,159	2,745,466	[6]15,940,746	[6]2,420,355	[6]1,315,444	[6]218,450	[6]11,981,452	[6]1,761,099	[6]1,537,226	[6]227,443
371	Motor vehicles and equipment....	14,181,764	2,220,962	13,499,622	2,029,507	1,047,359	171,995	11,498,502	1,681,762	413,892	59,761
3713	Truck and bus bodies.....	281,328	46,670	277,999	45,433	23,102	3,855	176,232	28,749	37,777	5,449
3715	Truck trailers.....	235,441	46,577	209,541	37,555	17,865	3,175	106,922	17,136	42,340	6,172
3717	Motor vehicles and parts.....	13,664,995	2,127,715	13,012,082	1,946,519	1,006,392	164,965	11,215,348	1,635,877	333,775	48,140
372	Aircraft and parts.....	185,484	133,798	[6]106,879	[6]30,482	[6]24,431	[6]7,696	[6]39,048	[6]10,606	[6]24,207	[6]4,706
3721	Aircraft.....	33,133	22,141	22,865	10,017	3,919	1,935	8,594	3,657	3,085	745
3722	Aircraft engines and parts....	70,103	69,745	29,706	7,866	10,033	2,313	9,579	2,959	6,704	1,362
3723	Aircraft propellers and parts.	4,837	4,534	(D)	(D)	(D)	(D)	(D)	(D)	-	-
3729	Aircraft equipment, n.e.c.....	77,411	37,378	54,308	12,599	10,479	3,448	20,875	3,990	14,418	2,599
373	Ship and boat building.....	714,855	122,743	692,317	105,846	48,179	8,095	29,762	5,612	480,582	69,814
3731	Ship building and repairing...	706,708	120,656	684,789	104,429	47,265	7,937	28,248	5,365	477,616	69,318
3732	Boat building and repairing...	8,147	2,087	7,528	1,417	914	158	1,514	247	2,966	496
374	Railroad equipment.....	1,380,200	212,678	1,357,226	205,925	170,956	25,607	254,712	37,253	612,684	92,183
3741	Locomotives and parts.....	118,242	18,575	116,454	17,622	11,054	1,860	28,785	4,818	58,653	8,485
3742	Railroad and street cars.....	1,261,958	194,103	1,240,772	188,303	159,902	23,747	225,927	32,435	554,031	83,698
3751	Motorcycles, bicycles, and parts	97,887	16,096	96,644	15,731	3,489	723	79,177	12,147	451	79
379	Transportation equipment, n.e.c.	201,969	39,189	188,058	32,864	21,030	4,334	80,251	13,719	5,410	900
3791	Trailer coaches.....	96,180	20,760	83,103	14,799	5,263	1,565	14,643	3,349	(X)	(X)
3799	Transportation equipment, n.e.c.....	105,789	18,429	104,955	18,065	15,767	2,769	65,608	10,370	5,410	900
38	Instruments and related products.....	127,626	50,026	113,880	31,226	(D)	(D)	53,805	12,039	7,827	1,446
3811	Scientific instruments.....	23,161	6,163	20,924	3,687	1,410	401	14,455	2,415	(D)	(D)
382	Mechanical measuring devices....	74,921	30,785	67,344	19,980	16,298	5,047	39,350	9,624	(D)	(D)
3821	Mechanical measuring devices..	45,831	18,293	40,979	11,817	12,670	3,490	19,297	4,620	3,470	769
3822	Automatic temperature controls	29,090	12,492	26,365	8,163	3,628	1,557	20,053	5,004	(D)	(D)
3831	Optical instruments and lenses..	1,310	1,640	345	173	(D)	(D)	(X)	(X)	(X)	(X)
3861	Photographic equipment.....	28,234	11,438	25,267	7,386	(X)	(X)	(X)	(X)	(X)	(X)
39	Miscellaneous manufacturing.	273,085	86,006	220,012	49,993	(X)	(X)	(X)	(X)	(X)	(X)
3914	Silverware and plated ware.....	21,942	17,770	1,361	286	(X)	(X)	(X)	(X)	(X)	(X)
394	Toys and sporting goods.....	188,140	45,994	169,741	35,997	(X)	(X)	(X)	(X)	(X)	(X)
3941	Games and toys.....	63,353	16,002	52,957	12,716	(X)	(X)	(X)	(X)	(X)	(X)
3942	Dolls.....	1,537	394	(D)	(D)	(X)	(X)	(X)	(X)	(X)	(X)
3943	Children's vehicles.....	38,090	7,667	(D)	(D)	(X)	(X)	(X)	(X)	(X)	(X)
3949	Sporting and athletic goods...	85,160	21,931	78,125	15,683	(X)	(X)	(X)	(X)	(X)	(X)
396	Costume jewelry and notions.....	34,714	11,624	29,425	9,005	(X)	(X)	(X)	(X)	(X)	(X)
3963	Buttons.....	1,621	667	1,451	429	(X)	(X)	(X)	(X)	(X)	(X)
3964	Needles, pins, and fasteners..	33,093	10,957	27,974	8,576	(X)	(X)	(X)	(X)	(X)	(X)
3999	Miscellaneous products, n.e.c.	28,289	10,618	19,485	4,705	(X)	(X)	(X)	(X)	(X)	(X)
19	Ordnance and accessories....	230,262	73,550	(D)	(D)	60,931	10,876	60,963	12,626	(D)	(D)
192	Missiles and ammunition, n.e.c..	139,109	34,575	123,993	20,518	46,668	7,175	(D)	(D)	(D)	(D)
1925	Complete guided missiles.....	9,110	3,940	8,293	2,296	2,215	708	(D)	(D)	2,117	501
1929	Ammunition, n.e.c.....	129,999	30,635	115,700	18,222	44,453	6,467	33,053	5,496	(D)	(D)
1931	Tanks and tank components.....	41,397	25,113	7,690	3,796	(D)	(D)	(D)	(D)	(D)	(D)
1951	Small arms, 30 mm. and under....	19,201	6,094	13,666	4,090	8,406	1,885	4,906	1,781	(D)	(D)
1961	Small arms ammunition.....	4,083	2,415	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1911 and 1999	Guns, howitzers, mortars, and ordnance and accessories, n.e.c.	26,472	5,353	25,497	4,064	2,643	489	16,302	2,200	(D)	(D)

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

[1]Major Group (2-digit) and industry group (3-digit) totals include (a) data for individual industries for which data are published as well as for those industries which could not be published without disclosing the operations of individual companies, and (b) an estimate of quantities for industries for which cost data were publishable but for which quantity data were suppressed because of significant nonreporting of quantity figures. The estimates for quantities are based on an average for a 2-digit industry group derived from those industry totals within the group for which valid totals of quantity and associated cost were reported.

[2]Includes data on the consumption of tin plate, black plate, and terne plate which amounted to 5,106,745 short tons at a cost of $1,033,624 thousand. Also includes concrete reinforcing bars which totaled 1,371,770 short tons at a cost of $151,247 thousand. Separate consumption statistics for these materials for selected industries are available in Volume II, Industry Statistics.

by Selected Industry Groups and Industries: 1963–Continued

Carbon steel—Continued						Alloy steel								Code
Structural shapes (331015)		Wire and wire products (331017)		All other mill shapes and forms (331001, 331009, 331018, 331019, 331041, and 331042)		Total		Bar and bar shapes (except stainless) (331021 and 331046)		All other mill shapes and forms (except stainless) (331020, 331029, 331044, and 331045)		Stainless steel mill shapes and forms (331031, 331047, 331048, and 331049)		
Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	
[6]491,959	[6]75,218	[6]167,676	[6]40,749	[6]446,989	[6]97,396	[6]816,576	[6]320,577	[6]572,473	[6]135,842	[6]165,213	[6]75,936	[6]78,890	[6]108,799	37
(D)	(D)	(D)	(D)	(D)	(D)	682,142	191,455	(D)	(D)	(D)	(D)	(D)	(D)	371
21,437	3,335	529	232	18,922	3,813	3,329	1,237	338	82	2,411	505	580	650	3713
(D)	(D)	(D)	(D)	(D)	(D)	25,900	9,022	(D)	(D)	(D)	(D)	(D)	(D)	3715
26,782	4,189	149,399	35,017	280,386	58,331	652,913	181,196	534,059	111,701	81,156	37,838	37,698	31,657	3717
[6]7,175	[6]2,060	[6]3,652	[6]1,368	[6]8,366	[6]4,046	[6]73,768	[6]98,782	[6]33,710	[6]23,217	[6]11,404	[6]13,374	[6]28,654	[6]62,191	372
3,436	1,059	1,648	817	2,183	1,804	10,268	12,124	5,144	4,189	2,887	2,686	2,237	5,249	3721
302	84	205	141	2,883	1,007	40,397	61,879	18,693	13,434	4,573	7,451	17,131	40,994	3722
-	-	-	-	-	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3723
3,437	917	1,799	410	3,300	1,235	23,103	24,779	9,873	5,594	3,944	3,237	9,286	15,948	3729
105,109	15,335	3,625	1,598	25,060	5,392	22,538	16,897	(X)	(X)	17,689	9,492	4,849	7,405	373
104,334	15,196	3,411	1,465	23,915	5,148	21,919	16,227	(X)	(X)	17,606	9,449	4,313	6,778	3731
775	139	214	133	1,145	244	619	670	(X)	(X)	83	43	536	627	3732
(D)	(D)	(D)	(D)	(D)	(D)	22,974	6,753	(X)	(X)	(D)	(D)	(D)	(D)	374
(D)	(D)	(D)	(D)	(D)	(D)	1,788	953	(X)	(X)	(D)	(D)	(D)	(D)	3741
236,559	34,469	1,495	489	62,858	13,465	21,186	5,800	(X)	(X)	19,545	3,955	1,641	1,845	3742
(D)	(D)	6,257	1,094	(D)	(D)	1,243	365	(X)	(X)	1,199	319	44	46	3751
62,569	9,907	2,404	844	16,394	3,160	13,911	6,325	(D)	(D)	(D)	(D)	54	57	379
54,888	8,612	(X)	(X)	8,309	1,273	13,077	5,961	(D)	(D)	(D)	(D)	-	-	3791
7,681	1,295	2,404	844	8,085	1,887	834	364	(X)	(X)	780	307	54	57	3799
2,189	550	(D)	(D)	(D)	(D)	13,746	18,800	(D)	(D)	(D)	(D)	9,837	15,606	38
417	97	(D)	(D)	(D)	(D)	2,237	2,476	352	176	540	354	1,345	1,946	3811
1,772	453	2,689	1,482	(D)	(D)	7,577	10,805	632	694	1,705	1,550	5,240	8,561	382
1,417	371	1,817	1,005	2,308	1,562	4,852	6,476	438	397	1,411	1,193	3,003	4,886	3821
355	82	872	477	(D)	(D)	2,725	4,329	194	297	294	357	2,237	3,675	3822
(X)	(X)	-	-	(D)	(D)	965	1,467	(D)	(D)	(D)	(D)	(D)	(D)	3831
(X)	(X)	(X)	(X)	25,267	7,386	2,967	4,052	(X)	(X)	(D)	(D)	(D)	(D)	3861
(X)	(X)	(X)	(X)	220,012	49,993	53,073	36,013	(X)	(X)	25,800	11,099	27,273	24,914	39
(X)	(X)	(X)	(X)	1,361	286	20,581	17,484	(X)	(X)	(D)	(D)	(D)	(D)	3914
(X)	(X)	(X)	(X)	169,741	35,997	18,399	9,997	(X)	(X)	16,676	7,783	1,723	2,214	394
(X)	(X)	(X)	(X)	52,957	12,716	10,396	3,286	(X)	(X)	(D)	(D)	(D)	(D)	3941
(X)	(X)	(X)	(X)	(D)	(D)	(D)	(D)	(X)	(X)	(D)	(D)	-	-	3942
(X)	(X)	(X)	(X)	(D)	(D)	(D)	(D)	(X)	(X)	(D)	(D)	(D)	(D)	3943
(X)	(X)	(X)	(X)	78,125	15,683	7,035	6,248	(X)	(X)	5,507	4,347	1,528	1,901	3949
(X)	(X)	(X)	(X)	29,425	9,005	5,289	2,619	(X)	(X)	(D)	(D)	(D)	(D)	396
(X)	(X)	(X)	(X)	1,451	429	170	238	(X)	(X)	(D)	(D)	(D)	(D)	3963
(X)	(X)	(X)	(X)	27,974	8,576	5,119	2,381	(X)	(X)	4,399	1,178	720	1,203	3964
(X)	(X)	(X)	(X)	19,485	4,705	8,804	5,913	(X)	(X)	4,708	1,970	4,096	3,943	3999
(D)	(D)	2,106	792	38,069	6,953	(D)	(D)	24,584	14,288	(D)	(D)	8,924	13,198	19
(D)	(D)	428	126	35,833	5,757	15,116	14,057	(D)	(D)	(D)	(D)	(D)	(D)	192
1,168	323	(D)	(D)	(D)	(D)	817	1,644	166	126	125	246	526	1,272	1925
(D)	(D)	(D)	(D)	(D)	(D)	14,299	12,413	(D)	(D)	(D)	(D)	(D)	(D)	1929
-	-	(D)	(D)	(D)	(D)	33,707	21,317	(D)	(D)	(D)	(D)	240	392	1931
-	-	(D)	(D)	(D)	(D)	5,535	2,004	(D)	(D)	(D)	(D)	(D)	(D)	1951
-	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1961
(D)	(D)	(D)	(D)	(D)	(D)	975	1,289	(D)	(D)	(D)	(D)	(D)	(D)	1911 and 1999

[3]The "Steel producing industries" include steel works and rolling mills, wire drawing establishments, independent pipe mills and cold rolling, drawing, and finishing establishments, but excludes forging plants (industry 3391, Iron and Steel Forgings) which are classified in this table as metal fabricators. To avoid duplication by counting both the forgings and bars and billets from which forgings are made, information for forgings is excluded. Also to eliminate duplication, the data shown for the "Steel producing industries" are limited to the consumption of mill shapes and forms in the production of fabricated products or in maintenance and repair work and exclude the consumption of these products in the manufacture of other basic shapes and forms. The source of these data is Current Industrial Reports Series M33B, "Steel Mill Products."

[4]The "Metal fabricating industries" include establishments whose primary activity is the manufacture of products fabricated beyond the metal mill level.

[5]Excludes figures for industry 3392, Nonferrous Forgings.

[6]Excludes figures for industry 3723, Aircraft Propellers and Parts.

TABLE 1B. Consumption of Copper and Copper-Base Alloy Mill Shapes and Forms, by Selected Industry Groups and Industries: 1963

Code	Industry group and industry[1]	Bare wire (for electrical conduction) (335725, and 335728)		Insulated wire and cable (335790)		Brass mill shapes							
						Total		Rod, bar, and mechanical wire (335102)		Plate, sheet, and strip (335003, 335100, 335109, and 335123)		Pipe and tube (335127)	
		Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds copper content)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)
	Metal fabricating industries, total[2]	[3]558,727	259,324	[4]505,961	341,874	[5]1,699,266	865,710	[5]683,837	310,991	[5]678,727	352,873	[5]336,702	201,846
33	Primary metal industries...	331,129	130,108	[3]24,026	18,566	40,930	22,615	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products..	13,285	5,822	3,590	2,645	605,750	285,987	329,093	134,750	150,835	82,462	125,822	68,775
35	Machinery, except electrical	9,284	5,846	29,627	23,669	238,248	145,149	49,616	31,725	55,419	33,831	133,213	79,593
36	Electrical machinery.....	195,304	111,447	390,791	253,763	[6]394,188	[6]199,096	[6]206,284	[6]97,211	147,271	70,645	[6]40,633	[6]31,240
37	Transportation equipment...	4,393	3,822	51,507	35,437	257,455	123,408	65,925	30,892	166,328	76,920	25,202	15,596
38	Instruments and related products.....	(D)	(D)	(D)	(D)	49,328	25,498	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufacturing	(X)	(X)	(X)	(X)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
19	Ordnance and accessories...	(D)	(D)	(D)	(D)	64,852	32,228	1,543	990	62,566	30,786	743	452
3357	Nonferrous wire drawing, etc.....	331,129	130,108	[3]24,026	18,566	40,930	22,615	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products.....	13,285	5,822	3,590	2,645	605,750	285,987	329,093	134,750	150,835	82,462	125,822	68,775
342	Cutlery, hand tools, hardware.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3,049	2,486
3421	Cutlery.....	-	-	-	-	(D)	(D)	(D)	(D)	(D)	(D)	250	257
3423	Hand and edge tools.....	(D)	(D)	(D)	(D)	2,053	1,354	875	494	417	276	761	584
3429	Hardware, n.e.c.....	(D)	(D)	(D)	(D)	55,846	29,947	23,015	10,723	30,793	17,579	2,038	1,645
343	Plumbing and heating, except electric.....	35	31	703	580	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3431	Metal plumbing fixtures..	-	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3432	Plumbing fittings, brass goods.....	-	-	(D)	(D)	90,484	41,345	47,312	21,066	10,218	4,446	32,954	15,833
3433	Heating equipment, except electric.....	35	31	372	283	17,733	10,673	2,537	983	1,788	1,116	13,408	8,574
344	Structural metal products..	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	20,613	11,430
3441	Fabricated structural steel.....	(D)	(D)	(D)	(D)	2,724	844	138	113	318	299	2,268	432
3442	Metal doors, sash, and trim.....	(D)	(D)	(D)	(D)	1,701	800	(D)	(D)	1,428	638	(D)	(D)
3443	Boiler shop products.....	(D)	(D)	(D)	(D)	21,372	12,844	486	257	4,919	3,875	15,967	8,712
3444	Sheet metal work.....	(D)	(D)	(D)	(D)	15,304	7,746	282	118	13,161	6,808	1,861	820
3446	Architectural metal work	-	-	-	-	1,093	1,998	(D)	(D)	418	264	(D)	(D)
3449	Miscellaneous metal work, n.e.c.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
345	Screw machine products, bolts, etc.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	13,705	7,075	(D)	(D)
3451	Screw machine products...	2,910	1,320	249	136	81,371	30,898	79,759	30,134	47	75	1,565	689
3452	Bolts, nuts, rivets, and washers.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	13,658	7,000	(D)	(D)
3461	Metal stampings.....	2,132	1,183	44	50	85,104	44,572	19,023	7,733	62,561	33,912	3,520	2,927
3481	Fabricated wire products, n.e.c.....	(D)	(D)	(D)	(D)	10,310	7,008	7,009	4,543	1,963	1,466	1,338	999
349	Fabricated metal products, n.e.c.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	47,844	24,905
3494	Valves and pipe fittings.	951	435	828	754	146,527	56,359	109,445	37,818	4,048	2,023	33,034	16,518
3498	Fabricated pipe and fittings.....	(X)	(X)	(X)	(X)	(D)	(D)	(D)	(D)	(D)	(D)	12,397	7,034
3499	Fabricated metal products, n.e.c.....	(D)	(D)	(D)	(D)	6,168	3,219	1,544	690	2,211	1,176	2,413	1,353
35	Machinery, except electrical.....	9,284	5,846	29,627	23,669	238,248	145,149	49,616	31,725	55,419	33,831	133,213	79,593
351	Engines and turbines.....	(D)	(D)	(D)	(D)	31,125	16,895	12,200	7,108	14,852	6,583	4,073	3,204
3511	Steam engines and turbines.....	(D)	(D)	(D)	(D)	16,019	9,652	11,721	6,789	1,719	944	2,579	1,919
3519	Internal combustion engines.....	(D)	(D)	(D)	(D)	15,106	7,243	479	319	13,133	5,639	1,494	1,285
3522	Farm machinery and equipment.....	49	29	538	485	16,749	5,383	2,551	959	543	323	13,655	4,101

See footnotes at end of table.

TABLE 1B. Consumption of Copper and Copper-Base Alloy Mill Shapes and Forms, by Selected Industry Groups and Industries: 1963—Continued

Code	Industry group and industry[1]	Bare wire (for electrical conduction) (335725, and 335728)		Insulated wire and cable (335790)		Brass mill shapes							
						Total		Rod, bar, and mechanical wire (335102)		Plate, sheet, and strip (335003, 335100, 335109, and 335123)		Pipe and tube (335127)	
		Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds copper content)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)
35	Machinery, except electrical—Continued												
353	Construction and like equipment	(D)	(D)	(D)	(D)	21,072	11,926	3,009	1,976	9,283	4,950	8,780	5,000
3531	Construction machinery	234	143	1,348	1,206	12,017	6,154	476	291	8,354	4,273	3,187	1,590
3532	Mining machinery and equipment	(D)	(D)	(D)	(D)	576	450	423	331	80	69	73	50
3533	Oil field machinery	486	169	20	28	2,353	1,465	1,229	832	101	92	1,023	541
3534	Elevators and moving stairways	289	199	2,787	2,026	1,593	1,037	261	149	506	355	826	533
3535	Conveyors	68	37	288	204	2,991	1,951	404	254	218	142	2,369	1,555
3536	Hoists, cranes, and monorails	293	175	1,708	1,337	1,263	630	188	90	-	-	1,075	540
3537	Industrial trucks and tractors	44	42	539	368	279	239	28	29	24	19	227	191
354	Metalworking machinery	956	833	3,585	3,946	8,924	6,801	(D)	(D)	(D)	(D)	(D)	(D)
3541	Metal-cutting machine tools	87	95	1,024	812	1,208	959	427	373	392	310	389	276
3542	Metal-forming machine tools	(D)	(D)	(D)	(D)	376	375	210	214	97	107	69	54
3544	Special dies and tools	(D)	(D)	(D)	(D)	1,899	2,005	1,002	1,087	702	743	195	175
3545	Machine tool accessories	(D)	(D)	(D)	(D)	290	274	(D)	(D)	(D)	(D)	(D)	(D)
3548	Metalworking machinery, n.e.c.	705	591	2,183	2,900	5,151	3,188	4,442	2,702	107	83	602	403
355	Special industry machinery	709	556	532	536	16,725	13,929	(D)	(D)	(D)	(D)	(D)	(D)
3551	Food products machinery	401	281	77	48	1,845	1,197	688	370	207	129	950	698
3552	Textile machinery	(D)	(D)	(D)	(D)	3,063	1,803	710	335	1,127	617	1,226	851
3553	Woodworking machinery	162	161	36	40	126	208	(D)	(D)	(D)	(D)	(D)	(D)
3554	Paper industries machine machinery	(D)	(D)	(D)	(D)	4,046	5,818	2,293	3,255	1,157	2,240	596	323
3555	Printing trades machinery	-	-	53	16	3,185	1,634	395	241	2,590	1,255	200	138
3559	Special industry machines, n.e.c.	(D)	(D)	(D)	(D)	4,460	3,269	1,251	928	1,203	850	2,006	1,491
356	General industrial machinery	1,324	870	3,195	2,798	25,348	16,827	8,388	5,152	5,128	3,385	11,832	8,290
3561	Pumps and compressors	655	367	2,233	1,715	9,675	5,982	4,355	2,530	655	362	4,665	3,090
3562	Ball and roller bearings	-	-	(D)	(D)	2,490	1,333	(D)	(D)	(D)	(D)	269	135
3564	Blowers and fans	(D)	(D)	(D)	(D)	1,757	1,070	84	49	585	355	1,088	666
3565	Industrial patterns	-	-	-	-	29	18	(D)	(D)	(D)	(D)	(D)	(D)
3566	Power transmission equipment	131	104	305	230	3,264	2,369	(D)	(D)	1,247	785	(D)	(D)
3567	Industrial furnaces and ovens	172	155	422	328	4,977	3,785	642	386	435	276	3,900	3,123
3569	General industry machines, n.e.c.	(D)	(D)	(D)	(D)	3,156	2,270	1,028	674	865	895	1,263	701
357	Office machines, n.e.c.	751	619	5,398	4,190	4,582	4,734	1,135	845	3,071	3,526	376	363
3571	Computing and related machines	(D)	(D)	(D)	(D)	3,459	3,775	771	545	2,381	2,937	307	293
3572	Typewriters	-	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3576	Scales and balances	-	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3579	Office machines, n.e.c.	(D)	(D)	(D)	(D)	932	751	274	183	637	547	21	21
358	Service industry machines	868	520	2,252	1,802	98,392	59,795	4,473	2,587	11,768	6,632	82,151	50,576
3581	Automatic vending machines	647	395	503	318	426	316	(D)	(D)	(D)	(D)	268	199
3582	Commercial laundry equipment	-	-	98	59	699	403	(D)	(D)	(D)	(D)	578	303
3585	Refrigeration machinery	(D)	(D)	(D)	(D)	94,146	57,066	2,352	1,250	11,312	6,297	80,482	49,519
3586	Measuring and dispensing pumps	-	-	63	55	1,480	863	1,029	547	174	167	277	149
3589	Service industry machines, n.e.c.	(D)	(D)	(D)	(D)	1,641	1,147	945	651	150	90	546	406
3599	Miscellaneous machinery	137	105	196	264	15,331	8,859	6,142	3,223	3,178	2,089	6,011	3,547

See footnotes at end of table.

TABLE 1B. Consumption of Copper and Copper-Base Alloy Mill Shapes and Forms, by Selected Industry Groups and Industries: 1963—Continued

Code	Industry group and industry[1]	Bare wire (for electrical conduction) (335725, and 335728)		Insulated wire and cable (335790)		Brass mill shapes							
						Total		Rod, bar, and mechanical wire (335102)		Plate, sheet, and strip (335003, 335100, 335109, and 335123)		Pipe and tube (335127)	
		Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds copper content)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)
36	Electrical machinery...	195,304	111,447	390,791	253,763	[6]394,188	[6]199,096	[6]206,284	[6]97,211	147,271	70,645	[6]40,633	[6]31,240
361	Electric distribution products.....	66,704	35,145	93,472	41,808	99,315	37,709	52,780	25,748	(D)	(D)	(D)	(D)
3611	Electric measuring instruments.....	1,338	1,065	6,407	3,257	2,812	2,149	1,300	886	(D)	(D)	(D)	2
3612	Transformers.....	62,343	32,081	81,912	34,886	47,025	8,724	15,896	6,024	30,151	2,045	978	655
3613	Switchgear and switchboards.....	3,023	1,999	5,153	3,665	49,478	26,836	35,584	18,838	11,471	6,657	2,423	1,341
362	Electric industrial apparatus.....	36,182	21,713	138,467	81,854	(D)	(D)	(D)	(D)	12,926	6,854	(D)	(D)
3621	Motors and generators....	25,307	15,475	113,610	65,586	76,586	31,851	70,325	28,201	5,809	3,212	452	438
3622	Industrial controls.....	3,195	1,510	5,367	3,761	8,491	5,173	4,099	2,388	4,007	2,547	385	238
3623	Welding apparatus.....	1,385	847	6,375	4,245	5,862	4,364	4,866	3,666	676	478	320	220
3624	Carbon and graphite products.....	659	619	33	17	(D)	(D)	(D)	(D)	334	221	(D)	(D)
3629	Electric industrial goods, n.e.c.....	5,636	3,262	13,082	8,245	6,286	2,105	3,694	1,387	2,100	396	492	322
363	Household appliances.....	(D)	(D)	(D)	(D)	26,247	18,534	2,556	1,583	4,367	2,368	19,324	14,583
3631	Household cooking equipment.....	-	-	895	1,232	1,154	980	(D)	(D)	(D)	(D)	(D)	(D)
3632	Household refrigerators..	(D)	(D)	(D)	(D)	16,840	12,734	(D)	(D)	(D)	(D)	(D)	(D)
3633	Household laundry equipment.....	-	-	1,529	1,248	(D)	(D)	(D)	(D)	-	-	-	-
3634	Electric housewares and fans.....	3,921	3,003	5,579	5,645	3,270	1,665	208	190	2,395	1,181	667	294
3635	Household vacuum cleaners	1,344	730	378	1,054	202	123	(D)	(D)	(D)	(D)	-	-
3636	Sewing machines.....	-	-	-	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3639	Household appliances, n.e.c.....	307	191	366	287	4,518	2,878	861	608	1,123	601	2,534	1,669
364	Lighting and wiring devices	(D)	(D)	(D)	(D)	58,796	39,755	(D)	(D)	(D)	(D)	7,825	7,179
3641	Electric lamps.....	(D)	(D)	(D)	(D)	1,360	1,432	(D)	(D)	(D)	(D)	-	-
3642	Lighting fixtures.....	2,688	1,526	10,087	6,674	9,278	6,215	1,518	889	5,230	3,116	2,530	2,210
3643	Current carrying devices.	5,513	2,659	12,037	5,791	43,380	27,717	13,315	6,910	25,823	18,179	4,242	2,628
3644	Noncurrent carrying devices.....	(D)	(D)	345	137	4,778	4,391	1,405	864	2,320	1,186	1,053	2,341
3651	Radio and TV receiving sets	5,221	1,532	18,632	11,527	625	543	(D)	(D)	(D)	(D)	(D)	(D)
366	Communication equipment....	11,566	10,930	36,963	47,643	37,870	22,147	11,171	6,916	23,988	13,176	2,711	2,055
3661	Telephone; telegraph apparatus.....	7,195	7,543	12,725	25,336	32,537	18,242	8,473	5,195	22,587	11,918	1,477	1,129
3662	Radio, TV communication equipment.....	4,371	3,387	24,238	22,307	5,333	3,905	2,698	1,721	1,401	1,258	1,234	926
367	Electronic components.....	17,365	11,692	26,442	18,487	35,746	20,975	16,838	8,777	13,420	8,369	5,488	3,829
3671	Electron tubes, receiving type.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
3672	Cathode ray picture tubes	-	-	-	-	(D)	(D)	-	-	(D)	(D)	(D)	(D)
3673	Electron tubes, transmitting.....	(D)	(D)	(D)	(D)	1,862	1,896	656	735	800	751	406	410
3674	Semiconductors.....	594	547	87	327	569	783	(D)	(D)	(D)	(D)	(D)	(D)
3679	Electronic components, n.e.c.....	16,706	11,070	26,304	18,087	32,736	17,705	15,583	7,322	12,218	7,103	4,935	3,280
369	Electrical products, n.e.c.	39,659	20,486	44,593	29,427	38,030	15,719	(D)	(D)	(D)	(D)	(D)	(D)
3694	Engine electrical equipment.....	39,200	19,594	30,537	16,090	31,080	12,654	22,402	8,318	8,590	4,280	88	56
3699	Electrical products, n.e.c.....	459	892	14,056	13,337	6,950	3,065	(D)	(D)	(D)	(D)	(D)	(D)
37	Transportation equipment.....	4,393	3,822	51,507	35,437	257,455	123,408	65,925	30,892	166,328	76,920	25,202	15,596
371	Motor vehicles and equipment.....	1,731	1,130	32,226	16,013	228,172	100,774	(D)	(D)	163,801	74,531	(D)	(D)
3713	Truck and bus bodies.....	-	-	149	96	415	251	(D)	(D)	(D)	(D)	217	138
3715	Truck trailers.....	-	-	773	433	605	256	(D)	(D)	(D)	(D)	(D)	(D)
3717	Motor vehicles and parts.	1,731	1,130	31,304	15,484	227,152	100,267	50,432	18,329	163,608	74,415	13,112	7,523

See footnotes at end of table.

TABLE 1B. Consumption of Copper and Copper-Base Alloy Mill Shapes and Forms, by Selected Industry Groups and Industries: 1963–Continued

Code	Industry group and industry[1]	Bare wire (for electrical conduction) (335725, and 335728)		Insulated wire and cable (335790)		Brass mill shapes							
						Total		Rod, bar, and mechanical wire (335102)		Plate, sheet, and strip (335003, 335100, 335109, and 335123)		Pipe and tube (335127)	
		Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds copper content)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)
37	Transportation equipment—Continued												
372	Aircraft and parts	(D)	(D)	(D)	(D)	(D)	(D)	4,958	2,799	(D)	(D)	445	504
3721	Aircraft	628	930	3,550	4,474	828	1,238	187	355	398	580	243	303
3722	Aircraft engines and parts	14	14	494	508	1,791	1,210	1,655	1,094	95	83	41	33
3723	Aircraft propellers and parts	(D)	(D)	(D)	(D)	(D)	(D)	-	-	(D)	(D)	-	-
3729	Aircraft equipment, n.e.c	259	226	835	2,038	3,415	1,674	3,116	1,350	138	156	161	168
373	Ship and boat building	(D)	(D)	(D)	(D)	8,018	6,811	790	882	1,133	1,069	6,095	4,860
3731	Ship building and repairing	(D)	(D)	(D)	(D)	7,561	6,307	688	818	1,103	1,041	5,770	4,448
3732	Boat building and repairing	(D)	(D)	(D)	(D)	457	504	102	64	30	28	325	412
374	Railroad equipment	1,124	791	5,544	4,241	11,409	9,758	10,021	8,926	711	465	677	367
3741	Locomotives and parts	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3742	Railroad and street cars	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3751	Motorcycles, bicycles, and parts	-	-	-	-	(D)	(D)	(D)	(D)	-	-	-	-
379	Transportation equipment, n.e.c	320	226	4,917	3,537	3,713	1,891	(D)	(D)	(D)	(D)	3,570	1,798
3791	Trailer coaches	320	226	4,790	3,480	3,339	1,505	78	47	-	-	3,261	1,458
3799	Transportation equipment, n.e.c	-	-	127	57	374	386	(D)	(D)	(D)	(D)	309	340
38	Instruments and related products	(D)	(D)	3,480	3,085	49,328	25,498	(D)	(D)	(D)	(D)	(D)	(D)
3811	Scientific instruments	121	178	763	484	829	505	508	259	130	111	191	135
382	Mechanical measuring devices	(D)	(D)	(D)	(D)	47,337	24,327	24,404	10,981	12,064	7,333	10,869	6,013
3821	Mechanical measuring devices	(D)	(D)	(D)	(D)	23,749	10,845	10,286	4,692	6,660	3,716	6,803	2,437
3822	Automatic temperature controls	302	261	2,262	1,744	23,588	13,482	14,118	6,289	5,404	3,617	4,066	3,576
3831	Optical instruments and lenses	-	-	(D)	(D)	222	203	(D)	(D)	(D)	(D)	(D)	(D)
3861	Photographic equipment	(X)	(X)	(X)	(X)	940	463	940	463	(X)	(X)	(X)	(X)
39	Miscellaneous manufacturing	(X)	(X)	(X)	(X)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3914	Silverware and plated ware	(X)	(X)	(X)	(X)	20,497	13,415	(D)	(D)	(D)	(D)	(D)	(D)
394	Toys and sporting goods	(X)	(X)	(X)	(X)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3941	Games and toys	(X)	(X)	(X)	(X)	597	431	(D)	(D)	(D)	(D)	(D)	(D)
3942	Dolls	(X)	(X)	(X)	(X)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3949	Sporting and athletic goods	(X)	(X)	(X)	(X)	2,433	1,955	(D)	(D)	(D)	(D)	(D)	(D)
396	Costume jewelry and notions	(X)	(X)	(X)	(X)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3963	Buttons	(X)	(X)	(X)	(X)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3964	Needles, pins, and fasteners	(X)	(X)	(X)	(X)	18,778	11,743	(D)	(D)	(D)	(D)	(D)	(D)
3999	Miscellaneous products, n.e.c	(X)	(X)	(X)	(X)	3,894	3,000	(D)	(D)	(D)	(D)	(D)	(D)
19	Ordnance and accessories	(D)	(D)	(D)	(D)	64,852	32,228	1,543	990	62,566	30,786	743	452
192	Missiles and ammunition, n.e.c	(D)	(D)	1,383	3,774	7,236	3,691	1,140	747	5,359	2,502	737	442
1925	Complete guided missiles	(D)	(D)	(D)	(D)	564	451	38	40	(D)	(D)	(D)	(D)
1929	Ammunition, n.e.c	(D)	(D)	(D)	(D)	6,672	3,240	1,102	707	(D)	(D)	(D)	(D)

See footnotes at end of tables.

TABLE 1B Consumption of Copper and Copper-Base Alloy Mill Shapes and Forms, by Selected Industry Groups and Industries: 1963—Continued

Code	Industry group and industry[1]	Bare wire (for electrical conduction) (335725, and 335728)		Insulated wire and cable (335790)		Brass mill shapes							
						Total		Rod, bar, and mechanical wire (335102)		Plate, sheet, and strip (335003, 335100, 335109, and 335123)		Pipe and tube (335127)	
		Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds copper content)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)
19	Ordnance and accessories—Continued												
192	Missiles and ammunition, n.e.c.—Continued												
1931	Tanks and tank components	-	-	(D)	(D)	(D)	(D)	(D)	(D)	-	-	(D)	(D)
1951	Small arms, 30 mm and under	-	-	-	-	(D)	(D)	(D)	(D)	-	-	-	-
1961	Small arms ammunition	-	-	-	-	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1911 and 1999	Guns, howitzers, mortars, and ordnance and accessories, n.e.c.	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

[1]Major group (2-digit) and industry group (3-digit) totals include (a) data for individual industries for which data are published as well as for those industries which could not be published without disclosing the operations of individual companies, and (b) an estimate of quantities for industries for which cost data were publishable but for which quantity data were suppressed because of significant nonreporting of quantity figures. The estimates for quantities are based on averages derived from those industry totals within the group for which valid totals of quantity and associated cost were reported.

[2]The "Metal fabricating industries" include establishments whose primary activity is the manufacture of products fabricated beyond the metal mill or foundry level.

[3]In addition, 730,948 thousand pounds of bare wire for electrical conduction were produced and consumed by nonferrous wire drawing establishments in the manufacture of further fabricated products. Most of this consumption resulted in the production of insulated wire and cable.

[4]Excludes insulated wire and cable produced and consumed in insulating plants in the production of fabricated products such as appliance wire and cord and flexible cord sets.

[5]Excludes brass mill shapes produced and consumed in nonferrous metal mills in the manufacture of fabricated metal products for which figures are not available.

[6]Excludes figures for industry 3624, "Carbon and Graphite Products."

TABLE 1C. Consumption of Aluminum and Aluminum-Base Alloy Mill Shapes and Forms, by Selected Industry Groups and Industries: 1963

Code	Industry group and industry [1]	Total		Sheet, plate, and foil (335202, 335203, and 335231)		Extruded shapes [2] (335205)		All other aluminum mill shapes and forms [2] (335207, 335208, and 335209)	
		Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)
	Metal fabricating industries, total [3]	[4]3,112,403	1,323,821	[4]1,783,040	678,847	[4]810,847	393,577	[4]518,516	251,397
24	Lumber and wood products	9,691	5,357	(X)	(X)	4,853	2,780	4,838	2,577
25	Furniture and fixtures	107,283	46,505	19,615	7,971	33,839	12,756	53,829	25,778
26	Paper and allied products	350,356	14,373	350,356	14,373	(X)	(X)	(X)	(X)
33	Primary metal industries	83,706	32,583	(X)	(X)	(X)	(X)	[5]83,706	[5]32,583
34	Fabricated metal products	1,387,081	588,291	747,397	318,515	480,501	198,920	159,183	70,856
35	Machinery, except electrical	[6]194,233	[6]101,313	[6]123,797	[6]56,580	[6]34,880	[6]25,323	[6]35,556	[6]19,410
36	Electrical machinery	265,526	141,864	135,296	70,369	72,018	43,592	58,212	27,903
37	Transportation equipment	526,653	292,176	328,253	170,458	149,182	94,352	49,218	27,366
38	Instruments and related products	16,838	9,947	3,429	2,549	4,134	3,180	9,275	4,218
39	Miscellaneous manufacturing	24,854	14,537	(X)	(X)	(X)	(X)	24,854	14,537
19	Ordnance and accessories	[7]61,609	[7]39,147	[7]10,551	[7]7,689	[7]12,261	[7]6,058	[7]38,797	[7]25,400
24	Lumber and wood products	9,691	5,357	(X)	(X)	4,853	2,780	4,838	2,577
243	Millwork and related products	9,691	5,357	(X)	(X)	4,853	2,780	4,838	2,577
2431	Millwork plants	7,364	4,505	-	-	4,853	2,780	2,511	1,725
2433	Prefabricated wood products	2,327	852	(X)	(X)	(X)	(X)	2,327	852
25	Furniture and fixtures	107,283	46,505	19,615	7,971	33,839	12,756	53,829	25,778
2514	Metal household furniture	(NA)	30,928	(NA)	4,896	31,833	11,240	32,869	14,792
2522	Metal office furniture	4,395	2,648	(X)	(X)	(X)	(X)	4,395	2,648
2531	Public building furniture	(NA)	2,576	(X)	(X)	(X)	(X)	(NA)	2,576
254	Partitions and fixtures	7,649	3,767	(X)	(X)	(X)	(X)	7,649	3,767
2541	Wood partitions and fixtures	(NA)	1,255	(X)	(X)	(X)	(X)	(NA)	1,255
2542	Metal partitions and fixtures	5,124	2,512	(X)	(X)	(X)	(X)	5,124	2,512
259	Furniture and fixtures, n.e.c	12,929	6,586	(NA)	3,075	2,006	1,516	(NA)	1,995
2591	Venetian blinds and shades	(NA)	5,599	(NA)	3,075	2,006	1,516	(NA)	1,008
2599	Furniture and fixtures, n.e.c	(NA)	987	(X)	(X)	(X)	(X)	(NA)	987
26	Paper and allied products	350,356	14,373	350,356	14,373	(X)	(X)	(X)	(X)
265	Paperboard containers and boxes	350,356	14,373	350,356	14,373	(X)	(X)	(X)	(X)
2651	Folding paperboard boxes	(D)	(D)	(D)	(D)	(X)	(X)	(X)	(X)
2652	Set-up paperboard boxes	(D)	(D)	(D)	(D)	(X)	(X)	(X)	(X)
2653	Corrugated shipping containers	(D)	(D)	(D)	(D)	(X)	(X)	(X)	(X)
2654	Sanitary food containers	(D)	(D)	(D)	(D)	(X)	(X)	(X)	(X)
2655	Fiber cans, tubes, drums, etc	285,930	11,903	285,930	11,903	(X)	(X)	(X)	(X)
33	Primary metal industries	83,706	32,583	(X)	(X)	(X)	(X)	[5]83,706	[5]32,583
3357	Nonferrous wire drawing, etc	13,789	4,581	(X)	(X)	(X)	(X)	[5]13,789	[5]4,581
339	Primary metal industries, n.e.c	69,917	28,002	(X)	(X)	(X)	(X)	[5]69,917	[5]28,002
3391	Iron and steel forgings	3,125	1,914	(X)	(X)	(X)	(X)	[5]3,125	[5]1,914
3392	Nonferrous forgings	66,792	26,088	(X)	(X)	(X)	(X)	[5]66,792	[5]26,088
34	Fabricated metal products	1,387,081	588,291	747,397	318,515	480,501	198,920	159,183	70,856
3411	Metal cans	115,190	35,412	(D)	(D)	(D)	(D)	(D)	(D)
342	Cutlery, hand tools, hardware	(D)	(D)	(D)	(D)	18,731	9,653	(D)	(D)
3421	Cutlery	2,755	1,219	(D)	(D)	(D)	(D)	(D)	(D)
3423	Hand and edge tools	4,498	1,989	3,261	1,297	773	453	464	239
3425	Hand saws and saw blades	(D)	(D)	-	-	(D)	(D)	-	-
3429	Hardware, n.e.c	49,822	23,646	25,110	11,346	16,351	7,841	8,361	4,459
343	Plumbing and heating, except electric	(D)	(D)	17,186	7,030	(D)	(D)	(D)	(D)
3431	Metal plumbing fixtures	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3432	Plumbing fittings, brass goods	1,066	553	(D)	(D)	675	405	(D)	(D)
3433	Heating equipment, except electric	18,252	7,423	16,787	6,798	708	439	757	186
344	Structural metal products	754,310	313,571	250,344	114,483	401,520	158,119	102,446	40,969
3441	Fabricated structural steel	25,202	12,435	11,603	5,950	10,155	4,695	3,444	1,790
3442	Metal doors, sash, and trim	455,984	173,718	68,545	26,048	334,549	128,054	52,890	19,616
3443	Boiler shop products	23,241	12,690	18,668	10,433	1,973	1,125	2,600	1,132
3444	Sheet metal work	178,976	83,851	118,986	58,498	19,159	8,524	40,831	16,829
3446	Architectural metal work	24,728	11,582	5,234	2,581	17,461	7,697	2,033	1,304
3449	Miscellaneous metal work, n.e.c	46,179	19,295	27,308	10,973	18,223	8,024	648	298

See footnotes at end of table.

TABLE 1C. Consumption of Aluminum and Aluminum-Base Alloy Mill Shapes and Forms, by Selected Industry Groups and Industries: 1963—Continued

Code	Industry group and industry[1]	Total		Sheet, plate, and foil (335202, 335203, and 335231)		Extruded shapes[2] (335205)		All other aluminum mill shapes and forms[2] (335207, 335208, and 335209)	
		Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)
34	Fabricated metal products—Con.								
345	Screw machine products, bolts, etc....	27,450	16,669	2,658	1,314	9,473	5,660	15,319	9,695
3451	Screw machine products.....	11,346	7,469	296	184	7,266	4,684	3,784	2,601
3452	Bolts, nuts, rivets, and washers....	16,104	9,200	2,362	1,130	2,207	976	11,535	7,094
3461	Metal stampings.....	246,636	109,119	212,435	92,326	24,393	12,146	9,808	4,647
3481	Fabricated wire products, n.e.c.....	20,474	7,375	6,191	1,913	6,906	2,138	7,377	3,324
349	Fabricated metal products, n.e.c.....	145,355	70,054	(D)	(D)	(D)	(D)	(D)	(D)
3494	Valves and pipe fittings.....	13,007	6,953	600	366	1,975	1,374	10,432	5,213
3497	Metal foil and leaf.....	105,404	48,488	(D)	(D)	(D)	(D)	(D)	(D)
3498	Fabricated pipe and fittings.....	5,954	3,909	223	134	4,895	3,193	836	582
3499	Fabricated metal products, n.e.c....	20,990	10,704	6,943	3,572	10,934	5,687	3,113	1,445
35	Machinery, except electrical.....	[6]194,233	[6]101,313	[6]123,797	[6]56,580	[6]34,880	[6]25,323	[6]35,556	[6]19,410
351	Engines and turbines.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3511	Steam engines and turbines.....	635	335	224	112	(D)	(D)	(D)	(D)
3519	Internal combustion engines.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3522	Farm machinery and equipment.....	14,538	7,400	6,902	2,996	3,595	2,610	4,041	1,794
353	Construction and like equipment.....	12,193	6,847	6,163	3,156	(D)	(D)	(D)	(D)
3531	Construction machinery.....	4,318	2,214	2,462	1,248	1,641	846	215	120
3532	Mining machinery and equipment.....	376	250	97	58	(D)	(D)	(D)	(D)
3533	Oil field machinery.....	852	660	198	139	431	380	223	141
3534	Elevators and moving stairways.....	601	302	85	45	439	224	77	33
3535	Conveyors.....	3,336	1,909	1,448	677	1,669	1,037	219	195
3536	Hoists, cranes, and monorails.....	790	472	471	264	284	179	35	29
3537	Industrial trucks and tractors.....	1,920	1,040	1,402	725	473	273	45	42
354	Metalworking machinery.....	11,547	7,674	4,775	3,455	(D)	(D)	(D)	(D)
3541	Metal-cutting machine tools.....	1,395	1,085	1,093	840	182	147	120	98
3542	Metal-forming machine tools.....	(NA)	409	393	265	57	56	(NA)	88
3544	Special dies and tools.....	4,815	3,177	2,277	1,655	1,509	1,029	1,029	493
3545	Machine tool accessories.....	1,733	1,222	286	94	(D)	(D)	(D)	(D)
3548	Metalworking machinery, n.e.c.....	3,006	1,781	726	601	108	71	2,172	1,109
355	Special industry machinery.....	19,104	11,277	(D)	(D)	(D)	(D)	(D)	(D)
3551	Food products machinery.....	3,652	2,006	2,167	1,189	686	400	799	417
3552	Textile machinery.....	4,221	2,899	1,156	857	1,446	1,099	1,619	943
3553	Woodworking machinery.....	1,276	889	60	116	300	327	916	446
3554	Paper industries machinery.....	442	299	(D)	(D)	(D)	(D)	(D)	(D)
3555	Printing trades machinery.....	4,058	2,230	3,221	1,623	649	458	188	149
3559	Special industry machinery, n.e.c...	5,455	2,954	1,856	1,043	1,334	980	2,265	931
356	General industrial machinery.....	27,415	15,790	(D)	(D)	(D)	(D)	(D)	(D)
3561	Pumps and compressors.....	2,591	1,646	463	332	1,161	606	967	708
3562	Ball and roller bearings.....	521	418	-	-	501	402	20	16
3564	Blowers and fans.....	11,345	4,646	10,713	4,326	320	164	312	156
3565	Industrial patterns.....	324	161	(D)	(D)	(D)	(D)	(D)	(D)
3566	Power transmission equipment.....	688	692	300	277	213	212	175	203
3567	Industrial furnaces and ovens.....	4,191	2,424	3,723	1,946	412	445	56	33
3569	General industry machines, n.e.c....	7,755	5,803	4,676	2,644	1,572	1,863	1,507	1,296
357	Office machines, n.e.c.....	8,654	6,475	(D)	(D)	(D)	(D)	1,867	1,434
3571	Computing and related machines.....	4,231	2,894	1,937	1,384	1,580	1,115	714	395
3572	Typewriters.....	1,365	946	(D)	(D)	796	693	(D)	(D)
3576	Scales and balances.....	451	440	434	419	(D)	(D)	(D)	(D)
3579	Office machines, n.e.c.....	2,607	2,195	928	639	768	649	911	907
358	Service industry machines.....	75,982	30,888	67,991	26,294	(D)	(D)	(D)	(D)
3581	Automatic vending machines.....	1,274	878	730	408	(D)	(D)	(D)	(D)
3582	Commercial laundry equipment.....	691	507	522	369	141	116	28	22
3585	Refrigeration machinery.....	71,921	27,883	65,545	24,765	3,926	2,164	2,450	954
3586	Measuring and dispensing pumps.....	731	626	232	156	445	434	54	36
3589	Service industry machines, n.e.c....	1,365	994	962	596	305	307	98	91
3599	Miscellaneous machinery.....	24,165	14,627	5,512	3,483	6,711	5,136	11,942	6,008
36	Electrical machinery.....	265,526	141,864	135,296	70,369	72,018	43,592	58,212	27,903
361	Electric distribution products.....	24,534	12,514	8,672	4,495	(D)	(D)	(D)	(D)
3611	Electric measuring instruments.....	7,386	4,003	4,397	2,409	914	787	2,075	807
3612	Transformers.....	6,784	3,164	1,585	740	(D)	(D)	(D)	(D)
3613	Switchgear and switchboards.....	10,364	5,347	2,690	1,346	5,644	3,019	2,030	982

See footnotes at end of table.

TABLE 1C. Consumption of Aluminum and Aluminum-Base Alloy Mill Shapes and Forms, by Selected Industry Groups and Industries: 1963—Continued

Code	Industry group and industry[1]	Total		Sheet, plate, and foil (335202, 335203, and 335231)		Extruded shapes[2] (335205)		All other aluminum mill shapes and forms[2] (335207, 335208, and 335209)	
		Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)
36	Electrical machinery—Continued								
362	Electric industrial apparatus	26,519	10,115	7,572	3,659	(D)	(D)	(D)	(D)
3621	Motors and generators	18,416	6,498	1,491	964	4,251	1,904	12,674	3,630
3622	Industrial controls	1,397	774	618	357	398	224	381	193
3629	Electric industrial goods, n.e.c	6,706	2,843	5,463	2,338	(D)	(D)	(D)	(D)
363	Household appliances	65,433	31,018	46,650	19,565	9,774	6,428	9,009	5,025
3631	Household cooking equipment	3,093	1,747	1,465	764	1,512	848	116	135
3632	Household refrigerators	36,297	16,082	29,788	11,663	4,655	3,612	1,854	807
3633	Household laundry equipment	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3634	Electric housewares and fans	17,725	8,268	12,557	5,685	2,064	1,034	3,104	1,549
3635	Household vacuum cleaners	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3636	Sewing machines	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3639	Household appliances, n.e.c	3,708	2,566	1,155	538	828	470	1,725	1,558
364	Lighting and wiring devices	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3641	Electric lamps	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3642	Lighting fixtures	33,666	16,721	21,341	10,619	10,044	4,937	2,281	1,165
3643	Current carrying devices	11,506	5,550	4,401	1,868	3,186	1,293	3,919	2,389
3644	Noncurrent carrying devices	11,176	4,496	2,360	841	(D)	(D)	(D)	(D)
3651	Radio and TV receiving sets	2,499	1,648	921	605	(D)	(D)	(D)	(D)
366	Communication equipment	36,666	22,508	18,431	11,642	10,082	6,608	8,153	4,258
3661	Telephone; telegraph apparatus	10,341	5,134	4,994	2,838	1,149	630	4,198	1,666
3662	Radio, TV communications equipment	26,325	17,374	13,437	8,804	8,933	5,978	3,955	2,592
367	Electronic components	44,078	32,564	(D)	(D)	15,844	12,857	(D)	(D)
3671	Electron tubes, receiving type	(D)	(D)	(D)	(D)	(D)	(D)	-	-
3672	Cathode ray picture tubes	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3673	Electron tubes, transmitting	429	603	290	384	(D)	(D)	(D)	(D)
3674	Semiconductors	280	328	(D)	(D)	(D)	(D)	(D)	(D)
3679	Electronic components, n.e.c	43,337	31,583	23,252	15,364	15,704	12,631	4,381	3,588
369	Electrical products, n.e.c	(D)	(D)	1,170	1,053	631	478	(D)	(D)
3694	Engine electrical equipment	2,582	2,101	1,170	1,053	631	478	781	570
3699	Electrical products, n.e.c	(D)	(D)	-	-	-	-	(D)	(D)
37	Transportation equipment	526,653	292,176	328,253	170,458	149,182	94,352	49,218	27,366
371	Motor vehicles and equipment	245,744	101,745	143,431	61,983	84,176	33,972	18,137	5,790
3713	Truck and bus bodies	20,544	9,336	13,507	6,292	6,534	2,766	503	278
3715	Truck trailers	107,621	42,546	52,472	22,298	54,857	20,010	292	238
3717	Motor vehicles and parts	117,579	49,863	77,452	33,393	22,785	11,196	17,342	5,274
372	Aircraft and parts	167,057	136,651	(D)	(D)	(D)	(D)	(D)	(D)
3721	Aircraft	76,406	64,110	51,623	38,107	16,672	21,237	8,111	4,766
3722	Aircraft engines and parts	8,295	7,527	3,777	3,089	2,070	1,649	2,448	2,789
3723	Aircraft propellers and parts	150	390	(D)	(D)	(D)	(D)	(D)	(D)
3729	Aircraft equipment, n.e.c	82,206	64,624	36,442	25,517	29,418	30,059	16,346	9,048
373	Ship and boat building	24,690	12,978	19,238	8,593	(D)	(D)	(D)	(D)
3731	Ship building and repairing	6,110	4,390	4,037	1,991	(D)	(D)	(D)	(D)
3732	Boat building and repairing	18,580	8,588	15,201	6,602	3,177	1,895	202	91
374	Railroad equipment	11,216	8,867	(D)	(D)	(D)	(D)	(D)	(D)
3741	Locomotives and parts	535	296	(D)	(D)	(D)	(D)	(D)	(D)
3742	Railroad and street cars	10,681	8,571	6,337	5,938	(D)	(D)	(D)	(D)
3751	Motorcycles, bicycles, and parts	206	101	(D)	(D)	(D)	(D)	(D)	(D)
379	Transportation equipment, n.e.c	77,740	31,834	66,961	26,931	8,729	2,703	2,050	2,200
3791	Trailer coaches	73,814	29,960	63,702	25,377	8,119	2,407	1,993	2,176
3799	Transportation equipment, n.e.c	3,926	1,874	3,259	1,554	610	296	57	24
38	Instruments and related products	16,838	9,947	3,429	2,549	4,134	3,180	9,275	4,218
3811	Scientific instruments	2,007	1,551	1,109	776	398	352	500	423
382	Mechanical measuring devices	14,102	7,809	2,099	1,625	3,262	2,414	8,741	3,770
3821	Mechanical measuring devices	6,004	4,322	997	792	950	959	4,057	2,571
3822	Automatic temperature controls	8,098	3,487	1,102	833	2,312	1,455	4,684	1,199
3831	Optical instruments and lenses	729	587	221	148	474	414	34	25

See footnotes at end of table.

TABLE 1C. Consumption of Aluminum and Aluminum-Base Alloy Mill Shapes and Forms, by Selected Industry Groups and Industries: 1963—Continued

Code	Industry group and industry[1]	Total		Sheet, plate, and foil (335202, 335203, and 335231)		Extruded shapes[2] (335205)		All other aluminum mill shapes and forms[2] (335207, 335208, and 335209)	
		Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)
39	Miscellaneous manufacturing.....	24,854	14,537	(X)	(X)	(X)	(X)	24,854	14,537
3914	Silverware and plated ware.....	(D)	(D)	(X)	(X)	(X)	(X)	(D)	(D)
394	Toys and sporting goods.....	(D)	(D)	(X)	(X)	(X)	(X)	(D)	(D)
3941	Games and toys.....	312	199	(X)	(X)	(X)	(X)	312	199
3942	Dolls.....	(D)	(D)	(X)	(X)	(X)	(X)	(D)	(D)
3943	Children's vehicles.....	(D)	(D)	(X)	(X)	(X)	(X)	(D)	(D)
3949	Sporting and athletic goods.....	9,357	5,048	(X)	(X)	(X)	(X)	9,357	5,048
396	Costume jewelry and notions.....	(NA)	7,037	(X)	(X)	(X)	(X)	(NA)	7,037
3963	Buttons.....	(NA)	330	(X)	(X)	(X)	(X)	(NA)	330
3964	Needles, pins, and fasteners.....	11,025	6,707	(X)	(X)	(X)	(X)	11,025	6,707
3999	Miscellaneous products, n.e.c.....	3,560	2,168	(X)	(X)	(X)	(X)	3,560	2,168
19	Ordnance and accessories.....	[7]61,609	[7]39,147	[7]10,551	[7]7,689	[7]12,261	[7]6,058	[7]38,797	[7]25,400
192	Missiles and ammunition, n.e.c.....	58,110	37,055	9,191	6,810	(D)	(D)	(D)	(D)
1925	Complete guided missiles.....	11,760	10,232	5,880	5,116	(D)	(D)	(D)	(D)
1929	Ammunition, n.e.c.....	46,350	26,823	3,311	1,694	10,806	5,354	32,233	19,775
1931	Tanks and tank components.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1951	Small arms, 30 mm. and under.....	(NA)	142	(D)	(D)	(D)	(D)	(D)	(D)
1911 and 1999	Guns, tanks, howitzers, and mortars, ordnance and accessories, n.e.c.....	3,273	1,950	1,333	863	(D)	(D)	(D)	(D)

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

[1]Major group (2-digit) and industry group (3-digit) totals include (a) data for individual industries for which data are publishable as well as for those industries which could not be published without disclosing the operations of individual companies, and (b) an estimate of quantities for industries for which cost data were publishable but for which quantity data were suppressed because of significant nonreporting of quantity figures. The estimates for quantities are based on averages derived from those industry totals within the group for which valid totals of quantity and associated cost were reported.

[2]Not comparable to 1958. In the 1958 Census of Manufactures extruded shapes were included with "All other aluminum mill shapes and forms."

[3]The "Metal fabricating industries" include establishments whose primary activity is the manufacture of products fabricated beyond the metal mill or foundry level.

[4]Excludes aluminum and aluminum-base alloy mill shapes produced and consumed in nonferrous metal mills in the production of fabricated products.

[5]Data for industry 3357 represents mill shapes and forms other than rods, wire for redrawing, and bare wire. For industries 3391 and 3392, represents all aluminum and aluminum-base alloy mill shapes.

[6]Excludes figures for industry 3519, Internal Combustion Engines.

[7]Excludes figures for industry 1931, Tanks and Tank Components.

TABLE 1D. Consumption of Selected Castings and Forgings, by Selected Industry Groups and Industries: 1963

Code	Industry group and industry[1]	Castings - rough and semifinished								Forgings			
		Iron (gray and malleable) (332011)		Steel (332300)		Aluminum and aluminum-base alloy (336100)		Copper and copper-base alloy (336200)		Iron and steel (339100)		Aluminum and aluminum-base alloy (339200)	
		Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)
	Metal fabricating industries, total[2]	5,008,190	1,484,496	796,229	527,246	832,561	543,537	230,700	163,727	1,713,065	831,033	50,654	63,361
34	Fabricated metal products	264,516	96,670	(D)	(D)	36,649	25,055	88,081	52,655	(D)	(D)	(X)	(X)
35	Machinery, except electrical	(D)	(D)	406,003	264,706	(D)	(D)	73,807	58,786	(D)	(D)	(X)	(X)
36	Electrical machinery	(D)	(D)	28,887	18,389	102,442	76,798	26,040	19,112	(D)	(D)	(X)	(X)
37	Transportation equipment	(D)	(D)	212,714	132,571	(D)	(D)	(D)	(D)	1,110,043	513,743	42,217	50,153
38	Instruments and related products	(D)	(D)	(D)	(D)	41,117	29,488	(D)	(D)	(D)	(D)	(X)	(X)
39	Miscellaneous manufacturing	(X)	(X)	(X)	(X)	(D)	(D)	4,605	2,692	(X)	(X)	(X)	(X)
19	Ordnance and accessories	7,852	2,780	34,767	32,440	(D)	(D)	(D)	(D)	13,243	9,834	8,434	13,208
34	Fabricated metal products	264,516	96,670	(D)	(D)	36,649	25,055	88,081	52,655	(D)	(D)	(X)	(X)
342	Cutlery, hand tools, hardware	74,998	29,678	6,257	3,895	8,437	5,608	(D)	(D)	8,354	7,553	(X)	(X)
3421	Cutlery	748	438	149	213	26	17	-	-	205	276	(X)	(X)
3423	Hand and edge tools	15,400	8,791	1,904	1,338	3,157	2,209	(D)	(D)	8,149	7,277	(X)	(X)
3429	Hardware, n.e.c	58,850	20,449	4,204	2,344	5,254	3,382	(NA)	5,585	(X)	(X)	(X)	(X)
343	Plumbing and heating, except electric	40,296	13,434	3,363	1,554	4,062	3,026	(D)	(D)	(D)	(D)	(X)	(X)
3431	Metal plumbing fixtures	5,123	1,655	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(X)	(X)
3432	Plumbing fittings, brass goods	3,993	1,074	(D)	(D)	(D)	(D)	19,390	10,116	(D)	(D)	(X)	(X)
3433	Heating equipment, except electric	31,180	10,705	1,208	668	3,857	2,892	1,651	1,226	(X)	(X)	(X)	(X)
344	Structural metal products	17,363	6,591	(D)	(D)	13,036	7,472	(D)	(D)	(X)	(X)	(X)	(X)
3441	Fabricated structural steel	3,696	1,049	20,829	8,498	2,477	2,071	103	66	(X)	(X)	(X)	(X)
3442	Metal doors, sash, and trim	1,205	645	2,063	531	7,306	3,441	76	40	(X)	(X)	(X)	(X)
3443	Boiler shop products	7,428	2,718	8,918	5,839	(NA)	301	670	712	(X)	(X)	(X)	(X)
3444	Sheet metal work	1,105	880	714	214	501	441	270	239	(X)	(X)	(X)	(X)
3446	Architectural metal work	2,094	673	(NA)	428	1,694	761	263	215	(X)	(X)	(X)	(X)
3449	Miscellaneous metal work, n.e.c	1,835	626	(D)	(D)	533	457	(D)	(D)	(X)	(X)	(X)	(X)
345	Screw machine products, bolts, etc	(X)	(X)	9,959	5,766	567	431	(D)	(D)	(X)	(X)	(X)	(X)
3451	Screw machine products	(X)	(X)	3,081	1,476	401	341	444	271	(X)	(X)	(X)	(X)
3452	Bolts, nuts, rivets, and washers	(X)	(X)	6,878	4,290	166	90	(D)	(D)	(X)	(X)	(X)	(X)
3461	Metal stampings	8,850	3,748	2,264	673	1,352	1,107	1,846	860	(X)	(X)	(X)	(X)
3481	Fabricated wire products, n.e.c	(X)	(X)	5,014	2,263	403	233	(NA)	29	(X)	(X)	(X)	(X)
349	Fabricated metal products, n.e.c	123,009	43,219	46,542	42,195	8,792	7,178	50,354	32,240	28,882	16,489	(X)	(X)
3494	Valves and pipe fittings	113,586	39,502	40,178	37,923	6,058	5,202	47,863	30,761	26,141	14,718	(X)	(X)
3498	Fabricated pipe and fittings	4,641	1,851	1,329	1,056	1,245	723	676	425	2,082	1,409	(X)	(X)
3499	Fabricated metal products, n.e.c	4,782	1,866	5,035	3,216	1,489	1,253	1,815	1,054	659	362	(X)	(X)
35	Machinery, except electrical	(D)	(D)	406,003	264,706	(D)	(D)	73,807	58,786	(D)	(D)	(X)	(X)
351	Engines and turbines	171,526	68,045	21,665	26,927	34,731	24,795	3,888	3,758	69,486	56,710	(X)	(X)
3511	Steam engines and turbines	10,238	5,697	19,651	24,969	391	412	2,765	2,955	16,560	31,525	(X)	(X)
3519	Internal combustion engines	161,288	62,348	2,014	1,958	34,340	24,383	1,123	803	52,926	25,185	(X)	(X)
3522	Farm machinery and equipment	212,497	64,659	11,705	7,264	9,838	5,651	541	392	89,594	35,449	(X)	(X)
353	Construction and like equipment	273,830	91,529	217,237	132,229	16,127	12,301	10,097	8,258	286,566	122,634	(X)	(X)
3531	Construction machinery	154,745	54,154	160,403	95,044	10,139	7,881	5,241	4,297	230,325	97,512	(X)	(X)
3532	Mining machinery and equipment	10,666	4,346	24,471	14,848	133	150	600	702	17,859	8,093	(X)	(X)
3533	Oil field machinery	45,986	12,858	17,017	11,513	1,753	858	2,010	1,403	17,136	7,831	(X)	(X)
3534	Elevators and moving stairways	8,455	3,157	1,300	1,173	1,284	774	960	880	835	615	(X)	(X)
3535	Conveyors	12,323	5,211	2,067	1,269	757	820	152	139	3,700	2,743	(X)	(X)
3536	Hoists, cranes, and monorails	7,939	3,411	6,214	4,295	1,135	1,154	988	711	14,011	3,061	(X)	(X)
3537	Industrial trucks and tractors	33,716	8,392	5,765	4,087	926	664	146	126	2,700	2,779	(X)	(X)

See footnotes at end of table.

TABLE 1D. Consumption of Selected Castings and Forgings, by Selected Industry Groups and Industries: 1963—Continued

Code	Industry group and industry[1]	Castings - rough and semifinished								Forgings			
		Iron (gray and malleable) (332011)		Steel (332300)		Aluminum and aluminum-base alloy (336100)		Copper and copper-base alloy (336200)		Iron and steel (339100)		Aluminum and aluminum-base alloy (339200)	
		Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)
35	Machinery, except electrical—Continued												
354	Metalworking machinery	201,399	76,980	45,051	26,811	19,730	16,878	6,697	6,312	20,895	15,408	(X)	(X)
3541	Metal-cutting machine tools	98,480	39,760	6,467	4,493	2,478	2,552	2,068	1,885	4,624	3,632	(X)	(X)
3542	Metal-forming machine tools	23,470	9,652	9,692	4,916	865	601	1,730	1,639	7,842	4,805	(X)	(X)
3544	Special dies and tools	40,303	12,883	7,680	4,789	3,207	1,910	770	696	1,085	1,220	(X)	(X)
3545	Machine tool accessories	12,887	5,632	573	600	792	764	142	121	1,268	1,277	(X)	(X)
3548	Metalworking machinery, n.e.c.	26,259	9,053	20,639	12,013	12,388	11,051	1,987	1,971	6,076	4,474	(X)	(X)
355	Special industry machinery	173,123	69,903	29,857	19,699	15,182	14,502	5,875	4,879	1,265	1,370	(X)	(X)
3551	Food products machinery	23,567	9,627	5,294	3,798	3,984	3,371	2,080	1,557	(X)	(X)	(X)	(X)
3552	Textile machinery	57,548	22,006	(X)	(X)	2,105	1,943	(X)	(X)	(X)	(X)	(X)	(X)
3553	Woodworking machinery	12,038	4,361	1,829	1,530	2,835	3,324	174	189	1,265	1,370	(X)	(X)
3554	Paper industries machinery	15,558	6,250	2,939	2,615	452	465	1,191	778	(X)	(X)	(X)	(X)
3555	Printing trades machinery	33,214	13,466	(X)	(X)	1,945	2,100	718	675	(X)	(X)	(X)	(X)
3559	Special industry machines, n.e.c.	31,198	14,193	19,795	11,756	3,861	3,299	1,712	1,680	(X)	(X)	(X)	(X)
356	General industrial machinery	246,826	88,045	40,401	30,620	(D)	(D)	31,923	24,517	61,560	36,178	(X)	(X)
3561	Pumps and compressors	115,393	43,125	10,962	14,513	5,524	4,520	17,070	13,371	8,776	8,840	(X)	(X)
3562	Ball and roller bearings	21,687	8,346	2,362	1,634	(D)	(D)	2,855	3,074	16,620	11,490	(X)	(X)
3564	Blowers and fans	9,637	3,971	549	447	1,518	1,144	228	192	(X)	(X)	(X)	(X)
3565	Industrial patterns	1,892	707	186	135	1,850	1,539	122	69	(X)	(X)	(X)	(X)
3566	Power transmission equipment	84,495	25,556	18,019	8,403	2,546	2,287	9,234	5,812	36,164	15,848	(X)	(X)
3567	Industrial furnaces and ovens	(X)	(X)	5,780	3,264	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
3569	General industry machines, n.e.c.	13,722	6,340	2,543	2,224	1,425	1,006	2,414	1,999	(X)	(X)	(X)	(X)
357	Office machines, n.e.c.	(X)	(X)	4,388	2,612	11,249	9,946	(X)	(X)	(X)	(X)	(X)	(X)
3571	Computing and related machines	(X)	(X)	592	595	2,698	3,160	(X)	(X)	(X)	(X)	(X)	(X)
3572	Typewriters	(X)	(X)	2,982	1,474	4,519	3,719	(X)	(X)	(X)	(X)	(X)	(X)
3576	Scales and balances	(X)	(X)	235	199	2,450	1,573	(X)	(X)	(X)	(X)	(X)	(X)
3579	Office machines, n.e.c.	(X)	(X)	579	344	1,582	1,494	(X)	(X)	(X)	(X)	(X)	(X)
358	Service industry machines	(D)	(D)	19,359	8,976	18,238	12,494	12,026	8,281	(D)	(D)	(X)	(X)
3581	Automatic vending machines	(D)	(D)	(D)	(D)	683	435	96	80	(X)	(X)	(X)	(X)
3582	Commercial laundry equipment	11,723	3,313	389	255	616	607	624	399	(X)	(X)	(X)	(X)
3585	Refrigeration machinery	91,869	31,059	17,141	7,720	8,517	5,249	6,755	3,920	5,490	2,861	(X)	(X)
3586	Measuring and dispensing pumps	8,831	2,869	(D)	(D)	2,692	1,977	513	477	(D)	(D)	(X)	(X)
3589	Service industry machines, n.e.c.	10,118	4,262	1,642	736	5,730	4,226	1,278	1,016	(X)	(X)	(X)	(X)
3599	Miscellaneous machinery	54,955	22,099	16,340	9,568	23,016	15,326	2,760	2,389	(X)	(X)	(X)	(X)
36	Electrical machinery	(D)	(D)	28,887	18,389	102,442	72,678	26,040	19,112	(D)	(D)	(X)	(X)
361	Electric distribution products	(X)	(X)	1,480	2,028	5,009	3,951	10,409	6,917	(X)	(X)	(X)	(X)
3611	Electric measuring instruments	(X)	(X)	210	699	1,797	1,204	112	54	(X)	(X)	(X)	(X)
3613	Switchgear and switchboards	(X)	(X)	1,270	1,329	3,212	2,747	10,297	6,863	(X)	(X)	(X)	(X)
362	Electric industrial apparatus	92,032	29,470	7,149	5,275	23,528	15,506	5,606	5,149	6,915	3,985	(X)	(X)
3621	Motors and generators	92,032	29,470	4,041	3,086	20,941	14,384	2,428	2,167	6,915	3,985	(X)	(X)
3622	Industrial controls	(X)	(X)	3,108	2,189	2,587	1,122	958	837	(X)	(X)	(X)	(X)
3623	Electric welding apparatus	(X)	(X)	(X)	(X)	(X)	(X)	2,220	2,145	(X)	(X)	(X)	(X)
363	Household appliances	(D)	(D)	(D)	(D)	27,421	18,429	(X)	(X)	(D)	(D)	(X)	(X)
3631	Household cooking equipment	7,385	3,241	(X)	(X)	(D)	(D)	(X)	(X)	(X)	(X)	(X)	(X)
3632	Household refrigerators	28,144	7,493	(D)	(D)	3,433	2,699	(X)	(X)	(D)	(D)	(X)	(X)
3633	Household laundry equipment	34,228	10,667	(X)	(X)	10,543	6,186	(X)	(X)	(X)	(X)	(X)	(X)
3634	Electric housewares and fans	571	191	(X)	(X)	7,754	5,880	(X)	(X)	(X)	(X)	(X)	(X)
3635	Household vacuum cleaners	(D)	(D)	(X)	(X)	1,951	1,001	(X)	(X)	(X)	(X)	(X)	(X)
3636	Sewing machines	2,345	1,421	(X)	(X)	(D)	(D)	(X)	(X)	(X)	(X)	(X)	(X)
3639	Household appliances, n.e.c.	6,118	3,260	(X)	(X)	3,615	2,550	(X)	(X)	(X)	(X)	(X)	(X)
364	Lighting and wiring devices	27,398	12,297	3,025	1,889	16,002	11,911	5,391	4,675	(X)	(X)	(X)	(X)
3642	Lighting fixtures	5,227	1,937	3,025	1,889	7,687	5,880	1,780	1,558	(X)	(X)	(X)	(X)
3643	Current carrying devices	467	310	(X)	(X)	2,788	2,277	2,418	2,051	(X)	(X)	(X)	(X)
3644	Noncurrent carrying devices	21,704	10,050	(X)	(X)	5,527	3,754	1,193	1,066	(X)	(X)	(X)	(X)
3651	Radio and TV receiving sets	(X)	(X)	(X)	(X)	765	651	(X)	(X)	(X)	(X)	(X)	(X)

See footnotes at end of table.

TABLE 1D. Consumption of Selected Castings and Forgings, by Selected Industry Groups and Industries: 1963—Continued

Code	Industry group and industry[1]	Castings - rough and semifinished								Forgings			
		Iron (gray and malleable) (332011)		Steel (332300)		Aluminum and aluminum-base alloy (336100)		Copper and copper-base alloy (336200)		Iron and steel (339100)		Aluminum and aluminum-base alloy (339200)	
		Quantity (short tons)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)
36	Electrical machinery—Con.												
366	Communication equipment	(X)	(X)	14,931	8,069	16,370	17,070	1,066	1,243	(X)	(X)	(X)	(X)
3661	Telephone; telegraph apparatus	(X)	(X)	(X)	(X)	5,122	3,178	(X)	(X)	(X)	(X)	(X)	(X)
3662	Radio, TV communications equipment	(X)	(X)	14,931	8,069	11,248	13,892	1,066	1,243	(X)	(X)	(X)	(X)
367	Electronic components	(X)	(X)	(D)	(D)	3,225	4,120	3,075	848	(X)	(X)	(X)	(X)
3671	Electron tubes, receiving type	(X)	(X)	-	-	(D)	(D)	-	-	(X)	(X)	(X)	(X)
3672	Cathode ray picture tubes	(X)	(X)	-	-	(D)	(D)	(D)	(D)	(X)	(X)	(X)	(X)
3673	Electron tubes, transmitting	(X)	(X)	50	61	1,145	144	(D)	(D)	(X)	(X)	(X)	(X)
3674	Semiconductors	(X)	(X)	(D)	(D)	(D)	(D)	(D)	(D)	(X)	(X)	(X)	(X)
3679	Electronic components, n.e.c.	(X)	(X)	875	642	2,033	3,894	499	485	(X)	(X)	(X)	(X)
3694	Engine electrical equipment	15,646	5,454	(X)	(X)	10,122	5,160	493	280	(X)	(X)	(X)	(X)
37	Transportation equipment	(D)	(D)	212,714	132,571	(D)	(D)	(D)	(D)	1,110,043	513,743	42,217	50,153
371	Motor vehicles and equipment	2,982,366	753,071	73,892	35,406	430,961	225,818	8,213	5,662	(D)	(D)	(D)	(D)
3713	Truck and bus bodies	2,650	905	1,316	847	190	163	82	72	369	175	(D)	(D)
3715	Truck trailers	713	673	13,280	6,836	566	367	-	-	(D)	(D)	168	110
3717	Motor vehicles and parts	2,979,003	751,493	59,296	27,723	430,205	225,288	8,131	5,590	999,528	390,967	1,403	974
372	Aircraft and parts	(X)	(X)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3721	Aircraft	(X)	(X)	3,164	5,620	5,394	8,515	(NA)	479	4,160	6,252	9,754	14,567
3722	Aircraft engines and parts	(X)	(X)	7,420	24,867	14,290	26,665	321	292	37,760	65,177	18,672	20,764
3723	Aircraft propellers and parts	(X)	(X)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3729	Aircraft equipment, n.e.c.	(X)	(X)	7,430	9,104	12,625	14,787	713	413	20,055	23,150	10,784	11,735
373	Ship and boat building	(X)	(X)	5,784	4,412	1,348	924	6,816	6,865	(X)	(X)	(X)	(X)
3731	Ship building and repairing	(X)	(X)	5,605	4,318	365	376	5,900	5,760	(X)	(X)	(X)	(X)
3732	Boat building and repairing	(X)	(X)	179	94	983	548	916	1,105	(X)	(X)	(X)	(X)
374	Railroad equipment	(D)	(D)	(D)	(D)	18,520	5,043	(X)	(X)	(D)	(D)	(X)	(X)
3741	Locomotives and parts	(D)	(D)	(D)	(D)	(D)	(D)	(X)	(X)	(D)	(D)	(X)	(X)
3742	Railroad and street cars	71,640	30,133	95,809	40,426	(D)	(D)	(X)	(X)	21,179	7,891	(X)	(X)
3751	Motorcycles, bicycles, and parts	(X)	(X)	(D)	(D)	(X)	(X)	(X)	(X)	3,926	2,309	(X)	(X)
379	Transportation equipment, n.e.c.	(X)	(X)	1,899	1,418	364	264	(X)	(X)	230	170	(X)	(X)
3791	Trailer coaches	(X)	(X)	988	504	364	264	(X)	(X)	(X)	(X)	(X)	(X)
3799	Transportation equipment, n.e.c.	(X)	(X)	911	914	(X)	(X)	(X)	(X)	230	170	(X)	(X)
38	Instruments and related products	(D)	(D)	(D)	(D)	41,117	29,488	(D)	(D)	(D)	(D)	(X)	(X)
3811	Scientific instruments	(X)	(X)	613	416	3,405	2,950	498	380	(X)	(X)	(X)	(X)
382	Mechanical measuring devices	(X)	(X)	6,128	6,462	24,747	17,645	20,550	14,108	(X)	(X)	(X)	(X)
3821	Mechanical measuring devices	(X)	(X)	5,404	5,990	16,971	12,512	16,093	11,545	(X)	(X)	(X)	(X)
3822	Automatic temperature controls	(X)	(X)	724	472	7,776	5,133	5,277	2,563	(X)	(X)	(X)	(X)
3831	Optical instruments and lenses	(D)	(D)	(D)	(D)	457	806	(D)	(D)	(D)	(D)	(X)	(X)
3861	Photographic equipment	-	-	-	-	12,508	8,087	-	-	-	-	-	-
39	Miscellaneous manufacturing	(X)	(X)	(X)	(X)	(D)	(D)	4,605	2,692	(X)	(X)	(X)	(X)
3914	Silverware and plated ware	(X)	(X)	(X)	(X)	(D)	(D)	637	446	(X)	(X)	(X)	(X)
3999	Miscellaneous products, n.e.c.	(X)	(X)	(X)	(X)	(X)	(X)	3,968	2,246	(X)	(X)	(X)	(X)
19	Ordnance and accessories	7,852	2,780	34,767	32,440	(D)	(D)	(D)	(D)	13,243	9,834	8,434	13,208
192	Missiles and ammunition, n.e.c.	4,612	989	1,251	931	2,580	3,068	484	(D)	1,528	1,519	(D)	(D)
1925	Complete guided missiles	(X)	(X)	63	191	2,063	2,550	(D)	(D)	298	867	1,966	2,870
1929	Ammunition, n.e.c.	4,612	989	1,188	740	517	518	(D)	(D)	1,230	652	(D)	(D)
1931	Tank and tank components	(D)	(D)	31,794	29,502	(D)	(D)	(X)	(X)	9,271	5,123	(D)	(D)
1951	Small arms, 30 mm. and under	1,562	790	(D)	(D)	559	279	(X)	(X)	1,790	1,943	(D)	(D)
1911 and 1999	Guns, howitzers, and mortars and ordnance and accessories, n.e.c.	(D)	(D)	(D)	(D)	1,063	636	(D)	(D)	654	1,249	(D)	(D)

Note: The data shown in this table represent purchases by metal fabricating plants from other establishments including interplant transfers between establishments operated by the same company. Data on the quantities of castings and forgings produced and consumed in the same establishment are excluded from this table but are available for selected industries in table 7A of the appropriate industry reports in Volume II, "Industry Statistics," of the 1963 Census of Manufactures.

(D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c Not elsewhere classified.

[1]Major group (2-digit) and industry group (3-digit) totals include (a) data for individual industries for which data are published as well as for those industries which could not be published without disclosing the operations of individual companies, and (b) an estimate of quantities for industries for which cost data were publishable but for which quantity data were suppressed because of significant nonreporting of quantity figures. The estimates for quantities are based on an average for a 2-digit industry group derived from those industry totals within the group for which valid totals of quantity and associated cost were reported.

[2]The "Metal fabricating industries" include establishments whose primary activity is the manufacture of products fabricated beyond the metal mill or foundry level.

TABLE 1E. Consumption of Pig Iron and Nonferrous Refinery Shapes, by Selected Industry Groups and Industries: 1963

Code	Industry group and industry[1]	Pig iron[2] (331051)		Nonferrous refinery shapes[2 3]					
				Copper and copper-base alloy (333121, 333122, and 334123)		Zinc and zinc-base alloy (333341 and 333348)		Aluminum and aluminum-base alloy (333401, 333404, 333405, and 333471)	
		Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)
	Chemical, primary metal, and metal fabricating industries, total....	[4]12,672 267	727 116	1,780,220	1,080,479	892,771	227,296	[5]2,893,551	[5]1,350,386
19	Ordnance and accessories.....	(X)	(X)	(X)	(X)	(X)	(X)	(D)	(D)
28	Chemicals and allied products.....	(X)	(X)	(X)	(X)	6,964	2,368	(X)	(X)
33	Primary metal industries.....	(D)	(D)	1,654,560	1,007,419	730,079	181,251	(D)	(D)
34	Fabricated metal products.....	(D)	(D)	(D)	(D)	141,989	39,940	105,648	49,782
35	Machinery, except electrical.....	348,329	21,465	(D)	(D)	(X)	(X)	24,174	10,202
36	Electrical machinery.....	(D)	(D)	6,118	4,233	13,739	3,737	45,413	19,844
37	Transportation equipment.....	251,982	14,696	(X)	(X)	(X)	(X)	(D)	(D)
38	Instruments and related products.....	(X)	(X)	(X)	(X)	(X)	(X)	(D)	(D)
1925	Complete guided missiles.....	(X)	(X)	(X)	(X)	(X)	(X)	(D)	(D)
28	Chemicals and allied products.....	(X)	(X)	(X)	(X)	6,964	2,368	(X)	(X)
281	Basic chemicals.....	(X)	(X)	(X)	(X)	6,964	2,368	(X)	(X)
2815	Intermediate coal tar products.....	(X)	(X)	(X)	(X)	1,664	566	(X)	(X)
2819	Inorganic chemicals, n.e.c.....	(X)	(X)	(X)	(X)	(NA)	1,802	(X)	(X)
33	Primary metal industries.....	(D)	(D)	1,654,560	1,007,419	730,079	181,251	(D)	(D)
331	Steel rolling and finishing.....	[4]8,682,563	382,000	19,735	12,094	306,101	73,227	54,537	22,770
3312	Blast furnaces and steel mills.....	[4]8,682,563	382,000	19,154	11,557	297,895	71,611	54,537	22,770
3315	Steel wire drawing, etc.....	(X)	(X)	581	537	8,206	1,616	(X)	(X)
332	Iron and steel foundries[6].....	3,119,646	291,595	11,217	6,534	652	164	14,365	6,201
3321	Gray iron foundries[6].....	2,870,926	275,875	8,936	5,006	164	44	11,092	4,740
3322	Malleable iron foundries[6].....	119,011	7,127	585	398	488	120	1,054	472
3323	Steel foundries[6].....	129,709	8,593	1,696	1,130	-	-	2,219	989
3333	Primary zinc.....	(X)	(X)	(X)	(X)	16,077	3,628	(X)	(X)
3341	Secondary nonferrous metals.....	(X)	(X)	6,378	3,585	68,769	17,248	86,949	33,268
335	Nonferrous rolling and drawing.....	(X)	(X)	1,519,536	926,580	155,446	37,829	(D)	(D)
3351	Copper rolling and drawing.....	(X)	(X)	1,062,988	660,341	100,885	24,894	50,034	21,958
3352	Aluminum rolling and drawing.....	(X)	(X)	22,389	13,202	3,502	1,292	[5]2,061,845	[5]985,038
3356	Rolling and drawing, n.e.c.....	(X)	(X)	5,937	3,652	51,059	11,643	(D)	(D)
3357	Nonferrous wire drawing, etc.....	(X)	(X)	428,222	249,385	(X)	(X)	(X)	(X)
336	Nonferrous foundries[6].....	(D)	(D)	97,694	58,626	183,034	49,155	394,662	174,290
3361	Aluminum castings[6].....	2,904	173	9,379	5,742	49,639	13,831	360,522	157,855
3362	Brass, bronze, copper castings[6].....	3,878	274	86,591	51,612	1,308	321	9,689	4,672
3369	Nonferrous castings, n.e.c.[6].....	(D)	(D)	1,724	1,272	132,087	35,003	24,451	11,763
34	Fabricated metal products.....	(D)	(D)	(D)	(D)	141,989	39,940	105,648	49,782
3411	Metal cans.....	(X)	(X)	(X)	(X)	(X)	(X)	(D)	(D)
3429	Hardware, n.e.c.....	(X)	(X)	7,411	4,820	119,691	33,775	4,355	2,402
343	Plumbing and heating except electric..	(D)	(D)	(D)	(D)	(X)	(X)	996	423
3431	Metal plumbing fixtures.....	75,799	4,765	(D)	(D)	(X)	(X)	(D)	(D)
3432	Plumbing fittings, brass goods.....	(D)	(D)	30,480	13,671	(X)	(X)	(D)	(D)
3433	Heating equipment except electric...	61,210	3,783	(X)	(X)	(X)	(X)	(X)	(X)
344	Structural metal products.....	14,288	1,592	(X)	(X)	9,845	2,560	(D)	(D)
3441	Fabricated structural steel.....	1,403	106	(X)	(X)	(D)	(D)	(D)	(D)
3442	Metal doors, sash, and trim.....	(D)	(D)	(X)	(X)	543	251	87,118	38,770
3443	Boiler shop products.....	4,628	275	(X)	(X)	539	123	-	-
3444	Sheet metal work.....	(D)	(D)	(X)	(X)	2,921	701	1,208	585
3446	Architectural metal work.....	4,731	276	(X)	(X)	(D)	(D)	1,663	842
3449	Miscellaneous metal work, n.e.c.....	-	-	-	-	(D)	(D)	-	-
3461	Metal stampings.....	(X)	(X)	(X)	(X)	12,072	3,506	(X)	(X)
349	Fabricated metal products, n.e.c.....	91,410	5,510	63,602	38,915	381	99	9,008	5,910
3494	Valves and pipe fittings.....	91,410	5,510	63,602	38,915	381	99	1,550	883
3496	Collapsible tubes.....	(X)	(X)	(X)	(X)	(X)	(X)	7,458	5,027
35	Machinery, except electrical.....	348,329	21,465	(D)	(D)	(X)	(X)	24,174	10,202
351	Engines and turbines.....	(X)	(X)	(X)	(X)	(X)	(X)	22,016	9,179

See footnotes at end of table.

TABLE 1E. Consumption of Pig Iron and Nonferrous Refinery Shapes, by Selected Industry Groups and Industries: 1963—Continued

Code	Industry group and industry[1]	Pig iron[2] (331051)		Nonferrous refinery shapes[2 3]					
				Copper and copper-base alloy (333121, 333122, and 334123)		Zinc and zinc-base alloy (333341 and 333348)		Aluminum and aluminum-base alloy (333401, 333404, 333405, and 333471)	
		Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)
35	Machinery, except electrical—Con.								
351	Engines and turbines—Continued								
3511	Steam engines and turbines	(X)	(X)	(X)	(X)	(X)	(X)	(D)	(D)
3519	Internal combustion engines	(X)	(X)	(X)	(X)	(X)	(X)	(D)	(D)
3522	Farm machinery and equipment	134,270	7,822	(X)	(X)	(X)	(X)	(X)	(X)
353	Construction and like equipment	40,203	2,424	(X)	(X)	(X)	(X)	(X)	(X)
3531	Construction machinery	34,705	2,088	(X)	(X)	(X)	(X)	(X)	(X)
3532	Mining machinery and equipment	5,498	336	(X)	(X)	(X)	(X)	(X)	(X)
354	Metalworking machinery	(D)	(D)	(X)	(X)	(X)	(X)	(X)	(X)
3541	Metal-cutting machine tools	16,921	1,093	(X)	(X)	(X)	(X)	(X)	(X)
3542	Metal-forming machine tools	3,969	275	(X)	(X)	(X)	(X)	(X)	(X)
3544	Special dies and tools	1,310	88	(X)	(X)	(X)	(X)	(X)	(X)
3545	Machine tool accessories	(D)	(D)	(X)	(X)	(X)	(X)	(X)	(X)
3548	Metalworking machinery, n.e.c.	14,611	853	(X)	(X)	(X)	(X)	(X)	(X)
355	Special industry machinery	(D)	(D)	(X)	(X)	(X)	(X)	(X)	(X)
3551	Food products machinery	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
3552	Textile machinery	21,449	1,436	(X)	(X)	(X)	(X)	(X)	(X)
3553	Woodworking machinery	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
3554	Paper industries machinery	50,442	2,884	(X)	(X)	(X)	(X)	(X)	(X)
3555	Printing trades machinery	(D)	(D)	(X)	(X)	(X)	(X)	(X)	(X)
3559	Special industry machines, n.e.c.	21,339	1,701	(X)	(X)	(X)	(X)	(X)	(X)
356	General industrial machinery	43,298	2,821	(D)	(D)	(X)	(X)	1,327	589
3561	Pumps and compressors	26,178	1,751	5,416	3,134	(X)	(X)	1,327	589
3562	Ball and roller bearings	-	-	(D)	(D)	(X)	(X)	(X)	(X)
3564	Blowers and fans	1,369	78	(X)	(X)	(X)	(X)	(X)	(X)
3566	Power transmission equipment	15,282	963	9,183	6,142	(X)	(X)	(X)	(X)
3569	General industry machines, n.e.c.	469	29	(X)	(X)	(X)	(X)	(X)	(X)
358	Service industry machines	(X)	(X)	(X)	(X)	(X)	(X)	831	434
3581	Automatic vending machines	(X)	(X)	(X)	(X)	(X)	(X)	(D)	(D)
3586	Measuring and dispensing pumps	(X)	(X)	(X)	(X)	(X)	(X)	(D)	(D)
3589	Service industry machines, n.e.c.	(X)	(X)	(X)	(X)	(X)	(X)	128	78
3599	Miscellaneous machinery	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
36	Electrical machinery	(D)	(D)	6,118	4,233	13,739	3,737	45,413	19,844
3621	Motors and generators	(X)	(X)	644	624	(X)	(X)	13,891	5,946
363	Household appliances	(X)	(X)	(X)	(X)	(X)	(X)	19,015	8,226
3631	Household cooking equipment	(X)	(X)	(X)	(X)	(X)	(X)	(D)	(D)
3633	Household laundry equipment	(X)	(X)	(X)	(X)	(X)	(X)	(D)	(D)
3634	Electric housewares and fans	(X)	(X)	(X)	(X)	(X)	(X)	(D)	(D)
3635	Household vacuum cleaners	(X)	(X)	(X)	(X)	(X)	(X)	(D)	(D)
3636	Sewing machines	(X)	(X)	(X)	(X)	(X)	(X)	(D)	(D)
364	Lighting and wiring devices	(X)	(X)	5,474	3,609	13,739	3,737	7,371	3,706
3642	Lighting fixtures	(X)	(X)	(X)	(X)	(X)	(X)	4,755	2,332
3643	Current carrying devices	(X)	(X)	2,335	1,595	395	174	463	271
3644	Noncurrent carrying devices	(X)	(X)	3,139	2,014	13,344	3,563	2,151	1,103
3694	Engine electrical equipment	(D)	(D)	(X)	(X)	(X)	(X)	(D)	(D)
37	Transportation equipment	251,982	14,696	(X)	(X)	(X)	(X)	(D)	(D)
371	Motor vehicles and equipment	239,183	13,896	(X)	(X)	(X)	(X)	(D)	(D)
3713	Truck and bus bodies	(D)	(D)	(X)	(X)	(X)	(X)	(D)	(D)
3715	Truck trailers	(D)	(D)	(X)	(X)	(X)	(X)	-	-
3717	Motor vehicles and parts	239,048	13,869	(X)	(X)	(X)	(X)	33,331	13,418
372	Aircraft and parts	(X)	(X)	(X)	(X)	(X)	(X)	352	387
3722	Aircraft engines and parts	(X)	(X)	(X)	(X)	(X)	(X)	159	240
3729	Aircraft equipment, n.e.c.	(X)	(X)	(X)	(X)	(X)	(X)	193	147

See footnotes at end of table.

TABLE 1E. Consumption of Pig Iron and Nonferrous Refinery Shapes, by Selected Industry Groups and Industries: 1963—Continued

Code	Industry group and industry[1]	Pig iron[2] (331051)		Nonferrous refinery shapes[2 3]					
				Copper and copper-base alloy (333121, 333122, and 334123)		Zinc and zinc-base alloy (333341 and 333348)		Aluminum and aluminum-base alloy (333401, 333404, 333405, and 333471)	
		Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)
37	Transportation equipment—Con.								
374	Railroad equipment	12,799	800	(X)	(X)	(X)	(X)	(X)	(X)
3741	Locomotives and parts	(D)	(D)	(X)	(X)	(X)	(X)	(X)	(X)
3742	Railroad and street cars	(D)	(D)	(X)	(X)	(X)	(X)	(X)	(X)
38	Instruments and related products	(X)	(X)	(X)	(X)	(X)	(X)	(D)	(D)
3861	Photographic equipment	(X)	(X)	(X)	(X)	(X)	(X)	(D)	(D)

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

[1]Major Group (2-digit) and Industry group (3-digit) totals include (a) data for individual industries for which data are published as well as for those industries which could not be published without disclosing the operations of individual companies, and (b) an estimate of quantities for industries for which cost data were publishable but for which quantity data were suppressed because of significant nonreporting of quantity figures. The estimates for quantities are based on an average for a 2-digit industry group derived from those industry totals within the group for which valid totals of quantity and associated cost were reported.

[2]Includes quantities received as interplant transfers from establishments owned by the same company.

[3]Refinery shapes consumed on a toll basis are included in the industry of the establishment owning the materials rather than in the industry in which such materials were processed. No separate data are available for refinery shapes processed on a toll basis.

[4]Excludes 56,369 thousand short tons produced and consumed in the same establishment in Industry 3312, Blast Furnaces and Steel Mills.

[5]Includes duplication arising from the consumption of aluminum pig by alloying plants (SIC 3352) in the production of 195,207 short tons of aluminum-base alloy ingot, which in turn was consumed by rolling mills, foundries and other consumers. Exact quantity duplicated cannot be determined.

[6]Excludes the quantities of materials consumed in foundry departments of establishments classified in finished product industries. Such quantities are included in the totals for the finished product industries.

TABLE 1F. Consumption of Metal Scrap, by Selected Industry Groups and Industries: 1963

Code	Industry group and industry [1] [2]	Iron and steel (999811)		Copper and copper-base alloy (999812)		Aluminum and aluminum-base alloy (999808, 999809, and 999810)	
		Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)
	Primary metal and metal fabricating industries, total..	37,122,168	1,011,355	855,973	410,228	832,759	232,821
33	Primary metal industries.....	[3]35,446,871	[3]947,282	824,169	395,286	[3]804,456	[3]221,223
34	Fabricated metal products.....	624,040	22,594	(D)	(D)	(D)	(D)
35	Machinery, except electrical.....	[3]674,092	[3]27,112	12,989	6,109	4,042	1,455
36	Electrical machinery.....	(X)	(X)	(D)	(D)	343	152
37	Transportation equipment.....	367,991	14,285	(X)	(X)	(D)	(D)
19	Ordnance and accessories.....	(D)	(D)	(X)	(X)	(D)	(D)
33	Primary metal industries.....	[3]35,446,871	[3]947,282	824,169	395,286	[3]804,456	[3]221,223
331	Steel rolling and finishing.....	28,344,067	713,775	(X)	(X)	(X)	(X)
3312	Blast furnaces and steel mills....	27,964,575	704,092	(X)	(X)	(X)	(X)
3313	Electrometallurgical products.....	379,492	9,683	(X)	(X)	(X)	(X)
332	Iron and steel foundries.....	7,102,083	233,071	(D)	(D)	9,722	1,233
3321	Gray iron foundries.....	5,116,520	170,161	1,220	598	(D)	(D)
3322	Malleable iron foundries.....	781,002	24,383	(D)	(D)	(D)	(D)
3323	Steel foundries.....	1,204,561	38,527	64	35	(NA)	764
333	Primary nonferrous metal.....	(X)	(X)	18,419	12,721	(X)	(X)
3331	Primary copper.....	(X)	(X)	13,853	10,099	(X)	(X)
3334	Primary aluminum.....	(X)	(X)	4,566	2,622	(X)	(X)
3341	Secondary nonferrous metals.....	(X)	(X)	357,494	159,015	563,521	146,025
335	Nonferrous rolling and drawing.....	(X)	(X)	393,097	195,946	[3]212,279	[3]68,279
3351	Copper rolling and drawing.....	(X)	(X)	380,170	189,328	6,270	2,794
3352	Aluminum rolling and drawing.....	(X)	(X)	11,555	5,800	206,009	65,485
3356	Rolling and drawing, n.e.c.....	(X)	(X)	(D)	(D)	(D)	(D)
3357	Nonferrous wire drawing, etc.....	(X)	(X)	(D)	(D)	(X)	(X)
336	Nonferrous foundries.....	[3]8,466	[3]436	(D)	(D)	18,934	5,686
3361	Aluminum castings.....	2,066	112	553	271	18,674	5,596
3362	Brass, bronze, copper castings....	6,400	324	52,297	26,050	197	69
3369	Nonferrous castings, n.e.c.....	(D)	(D)	(D)	(D)	63	21
34	Fabricated metal products.....	624,040	22,594	(D)	(D)	(D)	(D)
3429	Hardware, n.e.c.....	(X)	(X)	(D)	(D)	-	-
343	Plumbing and heating, except electric.....	319,087	11,331	6,838	3,378	(D)	(D)
3431	Metal plumbing fixtures.....	217,439	7,653	(X)	(X)	-	-
3432	Plumbing fittings, brass goods....	-	-	6,838	3,378	(D)	(D)
3433	Heating equipment, except electric	101,648	3,678	(X)	(X)	(X)	(X)
344	Structural metal products.....	82,982	3,025	(X)	(X)	15,203	5,593
3441	Fabricated structural steel.....	10,730	497	(X)	(X)	(NA)	21
3442	Metal doors, sash, and trim.....	(D)	(D)	(X)	(X)	6,984	2,665
3443	Boiler shop products.....	32,280	1,290	(X)	(X)	(X)	(X)
3444	Sheet metal work.....	(D)	(D)	(X)	(X)	(D)	(D)
3446	Architectural metal work.....	(D)	(D)	(X)	(X)	(D)	(D)
3449	Miscellaneous metal work, n.e.c...	(D)	(D)	(X)	(X)	-	-
3494	Valves and pipe fittings.....	221,971	8,238	9,535	4,790	6,321	3,638
35	Machinery, except electrical....	[3]674,092	[3]27,112	12,989	6,109	4,042	1,455
3519	Internal combustion engines.....	(X)	(X)	(X)	(X)	(D)	(D)
3522	Farm machinery and equipment.....	320,761	13,392	(X)	(X)	(X)	(X)
353	Construction and like equipment.....	79,565	2,589	(X)	(X)	(X)	(X)
3531	Construction machinery.....	65,045	2,053	(X)	(X)	(X)	(X)
3532	Mining machinery and equipment....	14,520	536	(X)	(X)	(X)	(X)
354	Metalworking machinery.....	93,202	3,766	(X)	(X)	(X)	(X)
3541	Metal-cutting machine tools.....	21,633	1,006	(X)	(X)	(X)	(X)
3542	Metal-forming machine tools.....	18,770	706	(X)	(X)	(X)	(X)
3544	Special dies and tools.....	16,292	512	(X)	(X)	(X)	(X)
3545	Machine tool accessories.....	-	-	(X)	(X)	(X)	(X)
3548	Metalworking machinery, n.e.c.....	36,507	1,542	(X)	(X)	(X)	(X)
355	Special industry machinery.....	102,020	4,143	(X)	(X)	(X)	(X)
3551	Food products machinery.....	(X)	(X)	(X)	(X)	(X)	(X)
3552	Textile machinery.....	17,589	1,063	(X)	(X)	(X)	(X)
3554	Paper industries machinery.....	13,906	986	(X)	(X)	(X)	(X)
3555	Printing trades machinery.....	1,000	44	(X)	(X)	(X)	(X)
3559	Special industry machines, n.e.c..	69,525	2,050	(X)	(X)	(X)	(X)

See footnotes at end of table.

TABLE 1F. Consumption of Metal Scrap, by Selected Industry Groups and Industries: 1963—Continued

Code	Industry group and industry [1] [2]	Iron and steel (999811)		Copper and copper-base alloy (999812)		Aluminum and aluminum-base alloy (999808, 999809, and 999810)	
		Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)
35	Machinery, except electrical—Continued						
356	General industrial machinery.....	78,544	3,222	12,989	6,109	(X)	(X)
3561	Pumps and compressors.....	33,212	1,309	(X)	(X)	(X)	(X)
3562	Ball and roller bearings.....	(D)	(D)	(X)	(X)	(X)	(X)
3564	Blowers and fans.....	(D)	(D)	(X)	(X)	(X)	(X)
3566	Power transmission equipment....	39,673	1,581	12,989	6,109	(X)	(X)
3569	General industry machines, n.e.c.....	2,414	121	(X)	(X)	(X)	(X)
358	Service industry machines.....	(D)	(D)	(X)	(X)	(D)	(D)
3586	Measuring and dispensing pumps..	(D)	(D)	(X)	(X)	(X)	(X)
3589	Service industry machines, n.e.c.....	(X)	(X)	(X)	(X)	(D)	(D)
36	Electrical machinery.....	(X)	(X)	(D)	(D)	343	152
364	Lighting and wiring devices.....	(X)	(X)	(D)	(D)	343	152
3643	Current carrying devices.....	(X)	(X)	(D)	(D)	(D)	(D)
3644	Noncurrent carrying devices.....	(X)	(X)	-	-	(D)	(D)
37	Transportation equipment.....	367,991	14,285	(X)	(X)	(D)	(D)
371	Motor vehicles and equipment.....	332,270	13,420	(X)	(X)	(D)	(D)
3713	Truck and bus bodies.....	(D)	(D)	(X)	(X)	-	-
3715	Truck trailers.....	(D)	(D)	(X)	(X)	(D)	(D)
3717	Motor vehicles and parts.....	330,649	13,346	(X)	(X)	128	54
3742	Railroad and street cars.....	35,721	865	(X)	(X)	-	-
1929	Ammunition, n.e.c.....	(D)	(D)	(X)	(X)	(D)	(D)

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

[1] Data represent only the consumption of purchased scrap in selected industries. No data are available on the quantities of "home" scrap consumed.

[2] Major group (2-digit) and industry group (3-digit) totals include (a) data for individual industries for which data are published as well as for those industries which could not be published without disclosing the operations of individual companies, and (b) an estimate of quantities for industries for which cost data were publishable but for which quantity data were suppressed because of significant nonreporting of quantity figures. The estimates for quantities are base on an average for a 2-digit industry group derived from those industry totals within the group for which valid totals of quantity and associated cost were reported.

[3] Excludes figures for the 4-digit industries within the major group, which may not be shown without disclosing individual company figures.

TABLE 2A. Consumption of Steel Mill Shapes and Forms, by Divisions and States: 1963

Divisions and States	All establishments, total	Steel fabricating establishments									
		All grades, total		Carbon steel							
				Bars and bar shapes (except concrete reinforcing bars) (331010, 331011, and 331043)		Sheet and strip (331012)		Plates (331013)		Structural shapes (331015)	
	(short tons)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)
United States, total..	61,477,329	58,113,068	10,856,856	6,001,393	1,086,465	26,088,568	4,074,695	6,137,624	912,149	3,923,674	598,430
New England	1,655,502	1,616,346	445,987	213,043	48,458	473,020	96,295	174,927	26,131	137,196	25,260
Maine	71,740	71,740	15,967	2,906	585	8,119	2,007	7,291	1,426	(D)	(D)
New Hampshire	27,855	27,855	9,324	4,383	1,500	8,168	1,765	1,600	270	(D)	(D)
Vermont	19,629	19,629	7,700	2,113	615	4,030	789	850	141	(D)	(D)
Massachusetts	833,240	809,704	217,356	130,699	27,777	188,666	40,954	100,521	14,621	83,299	16,738
Rhode Island	63,037	63,037	17,040	7,636	1,932	17,278	3,280	1,851	285	3,296	488
Connecticut	640,001	624,381	178,600	65,306	16,049	246,759	47,500	62,814	9,388	28,617	4,720
Middle Atlantic	10,935,170	9,825,135	1,915,505	978,623	174,093	3,611,396	587,396	1,326,466	195,679	1,027,928	147,872
New York	(D)	2,821,275	580,607	377,176	69,090	1,207,661	209,668	233,707	36,380	268,466	38,467
New Jersey	(D)	1,675,922	348,561	106,525	20,163	501,640	83,684	113,279	16,406	130,337	19,429
Pennsylvania	6,283,647	5,327,938	986,337	494,922	84,840	1,902,095	294,044	979,480	142,893	629,125	89,976
East North Central	32,147,619	30,945,948	5,534,360	3,326,133	607,395	17,744,004	2,669,433	2,151,450	315,174	975,541	148,876
Ohio	8,664,194	8,297,374	1,512,231	733,162	136,170	4,843,728	737,654	670,843	96,726	244,708	36,650
Indiana	3,853,847	3,659,191	664,298	426,166	78,336	2,017,021	320,089	276,300	40,378	175,588	25,045
Illinois	7,274,725	6,733,554	1,232,753	833,709	148,418	2,996,222	460,766	559,358	81,117	270,944	40,515
Michigan	(D)	9,860,190	1,671,600	1,099,433	202,473	6,808,801	983,868	331,374	50,699	185,055	28,773
Wisconsin	(D)	2,395,639	453,478	233,663	41,998	1,078,232	167,056	313,575	46,254	99,246	17,893
West North Central	(D)	3,047,335	571,507	388,265	67,909	1,041,782	177,850	405,369	59,580	313,489	48,566
Minnesota	(D)	616,543	122,215	84,841	14,374	185,477	32,849	54,793	8,764	54,182	7,921
Iowa	(D)	724,423	123,069	164,095	27,293	280,768	45,220	97,166	14,114	55,885	9,169
Missouri	(D)	1,117,848	218,605	86,185	16,757	380,013	65,616	173,362	24,689	128,993	19,561
North Dakota	20,311	20,311	3,483	1,779	297	4,751	747	2,657	390	(D)	(D)
South Dakota	34,063	34,063	5,559	3,560	582	9,850	1,816	4,887	742	(D)	(D)
Nebraska	274,254	274,254	50,517	21,275	3,752	101,618	17,185	23,268	3,470	23,973	3,968
Kansas	259,893	259,893	48,059	26,530	4,854	79,305	14,417	49,236	7,411	42,558	6,739
South Atlantic	3,362,565	3,151,508	576,006	257,533	41,759	809,541	136,627	380,050	56,353	425,405	62,232
Delaware	(D)	98,971	16,298	4,146	1,150	26,870	3,600	44,083	5,357	1,730	274
Maryland	(D)	722,443	134,280	32,743	5,830	130,368	22,596	50,361	7,533	46,476	6,573
District of Columbia	6,335	6,335	1,043	856	178	549	88	2,993	502	763	139
Virginia	(D)	445,691	79,175	53,059	7,128	78,266	15,324	98,081	15,650	130,930	18,052
West Virginia	(D)	467,556	74,893	18,190	2,903	279,821	42,679	57,891	8,549	19,410	3,085
North Carolina	384,873	384,873	76,705	39,083	7,396	74,152	14,323	36,791	5,628	65,920	10,079
South Carolina	179,766	179,766	33,488	50,880	7,507	31,424	5,428	8,747	1,282	48,756	7,982
Georgia	405,399	405,399	80,121	35,365	6,046	139,286	24,443	51,013	7,685	50,413	7,307
Florida	(D)	440,474	80,003	23,211	3,621	48,805	8,146	30,090	4,167	61,007	8,741
East South Central	2,445,272	2,285,038	404,949	247,696	40,116	882,480	142,517	406,242	57,003	264,734	39,906
Kentucky	588,926	569,863	110,738	56,026	9,783	355,841	57,649	24,382	3,484	10,983	1,781
Tennessee	684,275	684,275	121,227	47,926	8,099	320,384	51,584	60,292	8,672	77,928	12,592
Alabama	893,642	752,471	116,469	123,896	18,776	105,472	17,221	250,358	34,240	131,372	19,357
Mississippi	278,429	278,429	56,515	19,848	3,458	100,783	16,063	71,210	10,607	44,451	1,176
West South Central	(D)	2,738,274	497,008	234,641	40,736	531,956	85,373	576,019	89,317	429,455	68,113
Arkansas	(D)	181,805	34,472	12,720	2,285	93,883	15,622	10,769	1,628	20,286	2,825
Louisiana	(D)	353,261	60,003	10,545	1,560	92,524	14,058	75,265	11,272	34,099	5,266
Oklahoma	(D)	385,840	67,409	39,090	6,748	43,421	7,638	90,446	13,714	116,342	16,885
Texas	(D)	1,817,368	335,124	172,286	30,143	302,128	48,055	399,539	62,703	258,728	43,137
Mountain	(D)	477,724	87,904	44,904	8,248	80,071	14,769	99,075	14,150	75,432	12,630
Montana	13,494	13,494	2,230	845	147	6,226	1,026	3,434	525	1,506	262
Idaho	40,757	40,757	7,420	6,372	1,104	7,957	1,368	6,491	1,015	7,267	1,141
Wyoming	1,766	1,766	371	311	57	339	48	(D)	(D)	(D)	(D)
Colorado	(D)	184,628	38,277	20,713	4,039	23,339	4,272	18,813	3,148	24,560	4,753
New Mexico	17,243	17,243	2,589	990	179	1,021	164	5,281	812	2,426	361
Arizona	74,445	74,445	13,303	4,708	874	26,619	5,209	9,676	1,396	16,148	2,595
Utah	(D)	141,544	23,045	10,292	1,718	14,228	2,621	53,985	7,032	21,529	3,183
Nevada	3,847	3,847	669	673	130	342	61	(D)	(D)	(D)	(D)
Pacific	4,343,099	4,025,760	822,295	310,555	57,751	914,318	164,435	618,026	98,262	274,494	44,975
Washington	(D)	492,652	96,047	76,307	12,441	113,394	16,388	93,804	20,171	34,625	5,606
Oregon	(D)	316,422	56,461	30,387	4,385	57,802	8,945	75,198	11,363	17,807	2,659
California	(D)	3,121,629	649,713	202,405	40,648	741,032	138,729	447,708	67,012	217,358	35,979
Alaska	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-	(D)	(D)
Hawaii	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,316	216	(D)	(D)

See footnotes at end of table.

TABLE 2A. Consumption of Steel Mill Shapes and Forms, by Divisions and States: 1963—Continued

Divisions and States	Steel fabricating establishments --Continued										Steel producing establishments carbon, alloy, stainless, all mill shapes and forms
	Carbon steel--Continued				Alloy steel (except stainless)				Stainless steel mill shapes and forms (331031, 331047, 331048, and 331049)		
	Wire and wire products (331017)		All other mill shapes and forms (331001, 331018, 331041, 331009, 331019, and 331042)		Bars and bar shapes (331021 and 331046)		All other mill shapes and forms (331020, 331044, 331029, and 331045)				
	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)
United States, total	2,530,166	572,592	9,618,061	1,858,092	1,785,933	515,947	1,514,854	586,576	512,795	650,573	3,364,261
New England	136,211	32,416	249,824	50,726	87,821	43,979	91,805	47,889	52,499	74,833	39,156
Maine	(D)	(D)	(D)	(D)	79	76	(D)	(D)	(D)	(D)	-
New Hampshire	(D)	(D)	2,467	640	1,614	759	2,324	1,211	1,302	1,887	-
Vermont	(D)	(D)	(D)	(D)	1,261	1,071	203	730	(D)	(D)	-
Massachusetts	57,908	12,517	141,073	27,603	36,477	18,433	51,354	28,253	19,707	30,460	23,536
Rhode Island	8,267	1,842	17,342	3,177	1,422	779	(D)	(D)	4,057	4,643	-
Connecticut	63,325	15,695	48,528	11,466	46,968	22,861	35,546	16,538	26,518	34,383	15,620
Middle Atlantic	366,811	89,532	1,853,119	373,406	264,585	85,957	280,738	115,423	115,469	146,147	1,110,035
New York	114,517	25,727	412,313	88,756	89,848	25,255	63,154	25,699	54,433	61,565	(D)
New Jersey	61,340	17,932	650,558	125,031	36,735	11,331	56,049	29,986	19,459	24,599	(D)
Pennsylvania	190,954	45,873	790,248	159,619	138,002	49,371	161,535	59,738	41,577	59,983	955,709
East North Central	1,398,534	312,310	3,092,215	606,547	1,216,156	321,455	822,162	292,428	219,753	260,742	1,201,671
Ohio	488,439	96,589	721,377	140,582	248,362	77,195	278,891	105,283	67,864	85,382	366,820
Indiana	114,765	25,451	347,506	68,944	171,524	40,662	105,915	39,995	24,406	25,398	194,656
Illinois	378,735	90,557	1,262,119	248,665	155,154	44,874	234,810	63,427	42,503	54,414	541,171
Michigan	349,633	86,804	354,385	74,985	559,452	137,892	122,521	56,142	49,536	49,964	(D)
Wisconsin	66,962	12,909	406,828	73,371	81,664	20,832	80,025	27,581	35,444	45,584	(D)
West North Central	129,143	31,604	657,922	125,659	31,611	9,472	54,977	20,129	24,777	30,738	(D)
Minnesota	18,988	4,453	199,711	39,117	6,792	3,102	3,709	1,345	8,050	10,290	(D)
Iowa	30,432	7,436	67,103	12,048	11,089	2,333	15,778	2,984	2,107	2,472	(D)
Missouri	54,223	14,236	256,823	50,874	9,552	2,440	16,396	9,296	12,301	15,136	(D)
North Dakota	(D)	(D)	7,116	1,249	(D)	(D)	(D)	(D)	-	-	-
South Dakota	(D)	(D)	9,622	1,373	(D)	(D)	(D)	(D)	(D)	(D)	-
Nebraska	12,725	2,020	76,386	14,289	1,791	480	12,651	4,577	(D)	(D)	-
Kansas	11,514	3,217	41,161	6,709	2,212	1,058	5,718	1,664	1,659	1,990	-
South Atlantic	145.776	32,317	1,017,964	178,213	9,792	3,611	80,043	32,181	25,404	32,713	211,057
Delaware	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	351	669	(D)
Maryland	49,889	9,642	399,585	70,351	2,619	986	4,466	1,827	5,936	8,942	(D)
District of Columbia	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-
Virginia	11,454	2,674	53,671	8,239	745	249	16,907	8,728	2,578	3,131	(D)
West Virginia	(D)	(D)	88,101	16,266	811	218	775	173	(D)	(D)	(D)
North Carolina	60,033	12,768	81,880	13,868	977	594	23,647	7,849	2,390	4,200	-
South Carolina	3,714	2,085	31,806	4,773	174	60	1,331	1,018	2,934	3,353	-
Georgia	3,655	955	93,186	16,823	2,568	677	23,875	9,520	6,038	6,665	-
Florida	7,102	951	255,035	45,592	1,661	685	8,928	2,981	4,635	5,119	(D)
East South Central	131,237	25,107	268,379	53,652	29,966	6,600	35,912	17,607	18,392	22,441	160,234
Kentucky	31,658	6,834	54,361	14,572	19,841	3,767	9,923	4,843	6,848	8,025	19,063
Tennessee	33,746	6,782	126,744	22,827	3,869	1,408	11,100	6,164	(D)	(D)	-
Alabama	60,830	9,657	69,080	11,447	1,968	432	7,101	1,888	2,394	3,451	141,171
Mississippi	5,003	1,834	18,194	4,806	4,288	993	7,788	4,712	(D)	(D)	-
West South Central	60,709	13,480	738,684	137,767	88,669	23,814	66,838	23,052	11,303	15,356	(D)
Arkansas	2,432	546	40,249	10,886	447	127	729	230	290	323	(D)
Louisiana	1,680	309	127,340	22,686	1,166	593	9,666	2,748	976	1,511	(D)
Oklahoma	12,284	2,435	62,958	12,383	14,435	4,071	5,957	2,230	907	1,305	(D)
Texas	44,313	10,190	508,137	91,812	72,621	19,023	50,486	17,844	9,130	12,217	(D)
Mountain	12,900	3,330	158,541	29,735	2,463	712	1,859	803	2,479	3,527	(D)
Montana	(D)	(D)	1,293	210	-	-	(D)	(D)	-	-	-
Idaho	(D)	(D)	12,308	2,628	179	62	(D)	(D)	56	87	-
Wyoming	-	-	(D)	(D)	(D)	(D)	-	-	(D)	(D)	-
Colorado	7,802	1,915	85,101	17,356	1,862	416	1,016	500	1,422	1,878	(D)
New Mexico	119	24	7,250	875	(D)	(D)	(D)	(D)	75	135	-
Arizona	2,707	615	13,983	1,604	167	117	136	106	301	787	-
Utah	2,047	735	38,134	6,983	181	84	(D)	(D)	(D)	(D)	(D)
Nevada	-	-	(D)	(D)	-	-	-	-	(D)	(D)	-
Pacific	148,845	32,496	1,581,413	302,387	54,870	20,347	80,520	37,064	42,719	64,076	317,339
Washington	10,922	2,985	147,399	29,097	(D)	(D)	(D)	(D)	3,749	5,770	(D)
Oregon	(D)	(D)	(D)	(D)	3,605	1,055	5,687	2,946	940	1,461	(D)
California	131,415	28,017	1,230,078	232,689	48,307	18,402	65,308	31,411	38,018	56,826	(D)
Alaska	(D)	(D)	(D)	(D)	-	-	-	-	(D)	(D)	-
Hawaii	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1]Steel fabricating establishments include plants whose primary activity is the manufacture of products fabricated beyond the metal mill or foundry level. In this table, establishments classified in Industry 3391, "Iron and Steel Forgings" are considered as metal fabricators rather than producers of primary metals. To avoid duplication by counting both the forgings and the bars and billets from which the forgings are produced information for forgings is excluded.

[2]The term "Steel producing establishments" includes steel works and rolling mills, independent pipe mills, steel wire drawing establishments, and cold rolling, drawing, and finishing establishments. The data shown for steel producing establishments include only mill shapes and forms used in the production of fabricated products or in maintenance and repair work and were obtained from information collected on Bureau of the Census Annual Form MA33B, "Steel Mill Products."

TABLE 2B. Consumption of Copper and Copper-Base Alloy Mill Shapes and Forms, by Divisions and States: 1963

Division and State	Bare wire for electrical conduction						Insulated wire and cable (335790)	
	Total		Consumed in the manufacture of--					
			Fabricated products[1] (335728)		Insulated wire and cable[1] (335725)			
	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds copper content)	Delivered cost ($1,000)
United States, total	[2]558,727	259,324	227,598	129,219	[2]331,129	130,108	[3]505,961	341,871
New England	93,191	47,242	22,771	13,886	70,420	33,356	29,286	21,678
Maine	-	-	-	-	-	-	(D)	(D)
New Hampshire	(D)	(D)	(D)	(D)	(D)	(D)	1,089	974
Vermont	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Massachusetts	43,189	22,472	16,452	9,498	26,737	12,974	17,730	11,687
Rhode Island	15,698	6,238	(D)	(D)	(D)	(D)	2,051	2,214
Connecticut	26,883	15,180	4,496	3,292	22,387	11,888	8,079	6,564
Middle Atlantic	156,638	66,881	43,924	24,515	112,714	42,366	136,233	77,065
New York	38,329	17,250	(D)	(D)	(D)	(D)	45,686	36,076
New Jersey	91,902	35,146	(D)	(D)	(D)	(D)	40,666	13,257
Pennsylvania	26,407	14,485	25,926	14,097	481	388	49,881	27,732
East North Central	203,124	92,946	119,986	63,428	83,138	29,518	230,318	154,655
Ohio	28,747	16,074	(D)	(D)	(D)	(D)	58,087	37,996
Indiana	76,459	29,471	(D)	(D)	(D)	(D)	88,332	54,630
Illinois	60,923	28,170	33,566	18,059	27,357	10,111	46,868	38,868
Michigan	31,100	16,059	(D)	(D)	(D)	(D)	18,162	12,151
Wisconsin	5,895	3,172	5,895	3,172	-	-	18,869	11,010
West North Central	27,151	12,810	(D)	(D)	(D)	(D)	29,214	22,851
Minnesota	968	569	968	569	-	-	6,671	4,049
Iowa	1,024	924	1,024	924	-	-	1,871	2,276
Missouri	23,333	10,020	(D)	(D)	(D)	(D)	18,665	14,109
North Dakota	-	-	-	-	-	-	-	-
South Dakota	(D)	(D)	(D)	(D)	-	-	(D)	(D)
Nebraska	1,714	1,188	1,714	1,188	-	-	(D)	(D)
Kansas	(D)	(D)	(D)	(D)	-	-	391	697
South Atlantic	18,946	10,832	(D)	(D)	(D)	(D)	20,115	13,551
Delaware	-	-	-	-	-	-	(D)	(D)
Maryland	5,928	3,106	(D)	(D)	(D)	(D)	10,514	5,862
District of Columbia	(D)	(D)	(D)	(D)	-	-	(D)	(D)
Virginia	707	475	707	475	-	-	1,410	1,303
West Virginia	1,460	798	1,460	798	-	-	313	251
North Carolina	2,256	1,275	(D)	(D)	(D)	(D)	2,468	1,641
South Carolina	(D)	(D)	(D)	(D)	-	-	(D)	(D)
Georgia	7,661	4,624	7,661	4,624	-	-	2,527	1,716
Florida	605	368	605	368	-	-	1,731	1,301
East South Central	15,603	7,654	(D)	(D)	(D)	(D)	18,225	12,222
Kentucky	(D)	(D)	(D)	(D)	-	-	7,483	4,633
Tennessee	10,301	4,417	(D)	(D)	(D)	(D)	7,094	4,515
Alabama	(D)	(D)	(D)	(D)	-	-	1,714	1,038
Mississippi	2,999	1,887	2,999	1,887	-	-	1,934	2,036
West South Central	14,536	6,934	(D)	(D)	(D)	(D)	14,997	14,092
Arkansas	2,419	1,514	2,419	1,514	-	-	6,500	3,556
Louisiana	-	-	-	-	-	-	66	76
Oklahoma	541	400	541	400	-	-	2,726	2,735
Texas	11,576	5,020	(D)	(D)	(D)	(D)	5,705	7,725
Mountain	613	328	613	328	-	-	1,861	1,353
Montana	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	56	33
Wyoming	(D)	(D)	(D)	(D)	-	-	-	-
Colorado	457	230	457	230	-	-	1,310	927
New Mexico	(D)	(D)	(D)	(D)	-	-	24	39
Arizona	109	58	109	58	-	-	379	280
Utah	(D)	(D)	(D)	(D)	-	-	(D)	(D)
Nevada	-	-	-	-	-	-	(D)	(D)
Pacific	23,925	13,697	(D)	(D)	(D)	(D)	25,712	24,404
Washington	(D)	(D)	(D)	(D)	-	-	243	299
Oregon	416	402	416	402	-	-	(D)	(D)
California	28,152	13,132	(D)	(D)	(D)	(D)	24,896	23,706
Alaska	-	-	-	-	-	-	-	-
Hawaii	(D)	(D)	(D)	(D)	-	-	(D)	(D)

See footnotes at end of table.

TABLE 2B. Consumption of Copper and Copper-Base Alloy Mill Shapes and Forms by Divisions and States: 1963—Continued

Division and State	Brass mill shapes							
	Total		Rod, bar, and mechanical wire (335120)		Plate, sheet, and strip (335003, 335100, 335109, and 335123)		Pipe and tube (335127)	
	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)
United States, total	[4]1,699,206	865,710	[4]683,837	310,991	[4]678,727	352,873	[4]336,702	201,846
New England	217,197	121,936	66,382	32,113	124,010	72,304	26,805	17,519
Maine	1,690	1,053	165	123	(D)	(D)	(D)	(D)
New Hampshire	6,160	2,910	2,981	1,270	2,459	1,293	720	347
Vermont	588	526	267	208	(D)	(D)	(D)	(D)
Massachusetts	53,083	32,454	19,487	9,708	26,925	18,451	6,671	4,295
Rhode Island	17,169	9,930	4,031	2,366	11,555	6,655	1,583	909
Connecticut	138,507	75,063	39,451	18,438	82,494	45,502	16,562	11,123
Middle Atlantic	490,119	234,179	175,029	83,212	231,523	102,800	83,567	48,167
New York	322,509	139,452	104,638	41,631	181,222	73,588	36,649	24,233
New Jersey	53,538	32,598	16,925	10,617	24,538	14,111	12,075	7,870
Pennsylvania	114,072	62,129	53,466	30,964	25,763	15,101	34,843	16,064
East North Central	651,034	326,340	329,942	141,905	179,456	102,218	141,636	82,217
Ohio	148,249	77,203	69.491	30,839	46,640	25,779	32,118	20,585
Indiana	125,376	57,656	63,677	23,862	26,951	13,521	34,748	20,273
Illinois	164,839	82,943	78,097	34,507	58,789	33,919	27,953	14,517
Michigan	156,594	75,343	100,310	41,913	27,189	17,328	29,095	16,102
Wisconsin	55,976	33,195	18,367	10,784	19,887	11,671	17,722	10,740
West North Central	87,493	43,267	25,996	11,691	43,022	21,347	18,475	10,229
Minnesota	12,383	6,395	4,892	2,288	3,237	1,483	4,254	2,624
Iowa	14,027	7,039	4,726	2,111	1,654	1,200	7,647	3,728
Missouri	50,717	25,571	5,287	6,837	(D)	(D)	(D)	(D)
North Dakota	-	-	-	-	-	-	-	-
South Dakota	465	74	(D)	(D)	-	-	(D)	(D)
Nebraska	(D)	(D)	(D)	(D)	(D)	(D)	556	161
Kansas	(D)	(D)	1,026	432	(D)	(D)	(D)	(D)
South Atlantic	71,945	39,071	25,061	11,232	31,269	18,177	15,615	9,662
Delaware	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Maryland	(D)	(D)	2,735	1,192	(D)	(D)	1,413	1,032
District of Columbia	51	38	(D)	(D)	(D)	(D)	(D)	(D)
Virginia	6,044	4,618	(D)	(D)	(D)	(D)	3,584	2,782
West Virginia	(D)	(D)	914	360	153	84	(D)	(D)
North Carolina	18,122	9,167	10,619	4,046	4,676	3,263	2,827	1,858
South Carolina	1,263	578	(D)	(D)	429	132	388	180
Georgia	15,785	7,202	(D)	(D)	6,281	3,185	(D)	(D)
Florida	3,553	1,933	2,558	1,255	373	266	622	412
East South Central	43,708	26,028	14,622	8,266	16,078	8,337	13,008	9,425
Kentucky	22,316	11,796	[illegible],272	3,707	8,989	4,046	6,055	4,043
Tennessee	11,581	6,600	4,255	1,933	5,354	3,223	1,972	1,444
Alabama	4,767	3,968	2,970	2,557	(D)	(D)	(D)	(D)
Mississippi	5,044	3,664	(D)	(D)	(D)	(D)	4,132	3,211
West South Central	36,857	21,028	7,480	3,303	12,798	6,292	16,579	11,433
Arkansas	2,086	1,016	531	220	(D)	(D)	1,527	780
Louisiana	730	494	68	75	(D)	(D)	467	254
Oklahoma	5,800	3,535	612	348	899	733	4,289	2,454
Texas	28,241	15,983	6,269	2,660	11,676	5,378	10,296	7,945
Mountain	5,048	2,848	2,376	1,277	1,153	710	1,519	861
Montana	-	-	-	-	-	-	-	-
Idaho	185	118	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming	480	141	(D)	(D)	411	91	-	-
Colorado	2,741	1,287	1,950	869	153	101	638	317
New Mexico	26	30	(D)	(D)	(D)	(D)	(D)	(D)
Arizona	461	338	176	134	12	9	(D)	(D)
Utah	1,155	934	(D)	(D)	(D)	(D)	585	330
Nevada	-	-	-	-	-	-	-	-
Pacific	95,865	51,013	36,949	17,992	39,418	20,688	19,498	12,333
Washington	3,831	2,772	630	465	1,908	1,072	1,293	1,235
Oregon	1,084	662	582	328	73	47	(D)	(D)
California	90,922	47,557	35,737	17,199	37,425	19,562	17,760	10,796
Alaska	(D)	(D)	-	-	(D)	(D)	-	-
Hawaii	(D)	(D)	-	-	(D)	(D)	(D)	(D)

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1]Separate consumption figures are shown for (a) bare wire consumed by fabricators, and (b) bare wire consumed by establishments in Industry 3357, Nonferrous Wire Drawing, Etc. Most of the consumption in SIC 3357 results in the production of insulated wire and cable.

[2]In addition, 730,948 thousand pounds of bare wire for electrical conduction were produced and consumed by nonferrous wire drawing establishments in the manufacture of further fabricated products. Most of this consumption resulted in the production of insulated wire and cable.

[3]Excludes insulated wire and cable produced and consumed in insulating plants in the production of fabricated products such as appliance wire and cord and flexible cord sets.

[4]Excludes brass mill shapes produced and consumed in nonferrous metal mills in the manufacture of fabricated metal products for which figures are not available.

TABLE 2C. Consumption of Aluminum and Aluminum-Base Alloy Mill Shapes and Forms, by Divisions and States: 1963

Division and State	Total		Sheet, plate, and foil (335202, 335203, and 335231)		Extruded shapes (335205)		All other (335207, 335208, and 335209)	
	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)
United States, total	[1]3,112,403	1,323,831	[1]1,783,040	678,847	[1]810,847	393,577	[1]518,516	251,397
New England	126,653	71,384	51,361	27,143	46,300	27,382	28,992	16,859
Maine	2,286	1,420	1,597	891	447	270	(D)	(D)
New Hampshire	6,659	3,323	1,163	611	5,314	2,582	182	130
Vermont	640	414	347	240	127	51	(D)	(D)
Massachusetts	57,899	34,726	21,992	12,911	21,432	13,482	14,345	8,241
Rhode Island	8,899	4,711	1,907	1,219	3,784	2,100	3,208	1,392
Connecticut	50,400	26,882	24,355	11,271	15,196	8,897	10,849	6,714
Middle Atlantic	497,859	244,039	233,149	118,604	162,051	76,920	102,659	48,515
New York	193,550	94,525	88,484	39,281	72,362	37,075	32,704	18,169
New Jersey	100,800	61,711	51,180	38,732	22,279	10,734	27,341	12,245
Pennsylvania	203,509	87,803	93,485	40,591	67,410	29,111	42,614	18,101
East North Central	1,311,515	425,957	864,580	229,528	250,775	109,493	196,160	86,936
Ohio	381,689	150,770	195,102	65,864	88,202	38,874	98,385	46,032
Indiana	320,176	59,858	269,976	38,065	33,532	14,884	16,668	6,909
Illinois	177,979	69,972	107,281	39,602	36,557	16,909	34,141	13,461
Michigan	214,185	94,738	111,430	50,559	62,794	26,960	39,961	17,219
Wisconsin	217,486	50,619	180,791	35,438	29,690	11,866	7,005	3,315
West North Central	183,489	99,063	110,011	53,681	51,443	33,041	22,035	12,341
Minnesota	35,289	18,192	22,842	10,555	8,267	4,449	4,180	3,188
Iowa	15,262	6,803	7,320	2,987	5,384	2,538	2,558	1,278
Missouri	73,910	33,830	44,656	20,054	22,089	10,741	7,165	3,035
North Dakota	191	104	187	93	(D)	(D)	(D)	(D)
South Dakota	665	289	455	177	(D)	(D)	(D)	(D)
Nebraska	17,446	8,500	9,524	4,738	2,726	1,204	5,196	2,558
Kansas	40,726	31,345	25,027	15,077	12,783	14,003	2,916	2,265
South Atlantic	306,220	131,573	172,518	73,079	94,601	41,893	39,101	16,601
Delaware	1,898	1,046	884	646	980	379	(D)	(D)
Maryland	41,205	19,691	20,937	9,841	11,141	5,955	9,127	3,895
District of Columbia	516	313	272	195	(D)	(D)	(D)	(D)
Virginia	16,892	9,197	8,619	4,929	3,855	1,976	4,418	2,292
West Virginia	6,265	2,727	5,183	2,247	(D)	(D)	(D)	(D)
North Carolina	33,482	16,405	20,138	9,971	7,872	4,018	5,472	2,416
South Carolina	13,389	7,177	12,066	6,493	811	431	512	253
Georgia	74,102	33,570	41,711	18,854	17,899	9,215	14,492	5,501
Florida	118,471	41,447	62,708	19,903	50,881	19,422	4,882	2,122
East South Central	170,029	81,938	100,587	48,388	48,267	23,671	21,175	9,879
Kentucky	85,230	42,985	64,780	33,668	14,960	7,011	5,490	2,306
Tennessee	47,665	21,404	18,015	6,175	21,186	11,295	8,464	3,934
Alabama	24,298	12,205	12,774	6,231	6,096	3,212	5,428	2,762
Mississippi	12,836	5,344	5,018	2,314	6,025	2,153	1,793	877
West South Central	120,420	53,504	56,065	27,542	49,742	19,129	14,613	6,833
Arkansas	9,815	4,089	3,301	1,263	2,886	1,310	3,628	1,516
Louisiana	14,748	6,298	6,417	2,967	5,088	2,024	3,243	1,307
Oklahoma	10,602	5,711	7,575	3,592	2,682	1,880	345	239
Texas	85,255	37,406	38,772	19,720	39,086	13,915	7,397	3,771
Mountain	25,281	13,581	10,952	6,121	8,074	5,114	6,255	2,346
Montana	172	109	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	1,486	671	(D)	(D)	(D)	(D)	-	-
Wyoming	82	67	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	8,436	5,506	2,886	1,759	4,863	3,389	687	358
New Mexico	2,103	1,410	1,289	866	(D)	(D)	(D)	(D)
Arizona	5,417	2,973	2,819	1,513	2,412	1,298	186	162
Utah	7,585	2,845	2,262	1,170	(D)	(D)	(D)	(D)
Nevada	-	-	-	-	-	-	-	-
Pacific	370,937	202,782	183,817	94,761	99,594	56,934	87,526	51,087
Washington	24,867	14,496	(D)	(D)	11,816	6,169	(D)	(D)
Oregon	16,190	8,276	9,623	4,154	(D)	(D)	2,773	2,466
California	329,232	179,505	164,347	84,645	83,954	49,100	80,931	45,760
Alaska	(D)	(D)	(D)	(D)	-	-	-	-
Hawaii	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1]Excludes aluminum and aluminum-base alloy mill shapes produced and consumed in nonferrous metal mills in the production of fabricated products for which figures are not available.

TABLE 2D. Consumption of Castings and Forgings, by Divisions and States: 1963

Division and State	Castings - rough and semifinished [1]								Forgings [1]			
	Iron (gray and malleable) (332011)		Steel (332300)		Aluminum and aluminum base alloy (336100)		Copper and copper-base alloy (336200)		Iron and steel (339100)		Aluminum and aluminum base alloy (339200)	
	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (1,000 pounds)	Delivered cost ($1,000)
United States, total...	5,008,190	1,484,496	796,229	527,246	832,561	543,537	230,700	163,727	1,713,065	831,033	50,651	63,361
New England	123,628	51,180	26,885	28,769	25,900	29,915	24,428	19,098	35,118	49,039	8,628	10,596
Maine	1,489	723	516	722	63	60	(D)	(D)	1,123	1,014	(D)	(D)
New Hampshire	3,822	1,671	705	722	287	376	(D)	(D)	(D)	(D)	-	-
Vermont	4,723	2,221	382	377	420	462	115	93	(D)	(D)	(D)	(D)
Massachusetts	55,134	23,594	13,516	14,779	10,931	11,321	11,794	10,091	13,015	16,826	(D)	(D)
Rhode Island	8,613	3,322	1,969	1,280	321	466	1,659	1,345	271	245	(D)	(D)
Connecticut	49,847	19,649	9,797	10,889	13,878	17,230	8,613	5,838	18,502	29,478	(D)	(D)
Middle Atlantic	423,938	143,798	136,742	105,519	105,322	73,025	54,276	41,714	199,686	120,467	14,251	14,646
New York	211,214	66,059	42,888	35,315	73,747	46,353	15,654	12,848	98,787	56,071	(D)	(D)
New Jersey	52,513	17,581	15,919	14,045	11,228	9,690	14,435	10,768	15,238	14,626	(D)	(D)
Pennsylvania	160,211	60,158	77,935	56,159	20,347	16,982	24,187	18,098	85,661	49,770	(D)	(D)
East North Central	3,933,724	1,117,499	385,175	237,057	560,722	335,887	103,562	68,063	1,299,192	561,970	8,068	13,501
Ohio	841,871	280,937	106,292	68,902	150,939	103,782	31,114	19,310	228,050	110,937	(D)	(D)
Indiana	283,948	82,691	37,078	21,368	93,564	55,487	8,514	5,841	172,835	74,569	833	888
Illinois	378,125	140,605	119,601	72,681	46,302	34,144	28,674	18,483	265,752	118,656	95	164
Michigan	2,144,234	529,339	58,885	35,998	208,836	112,485	21,019	14,460	546,166	228,117	1,331	1,764
Wisconsin	285,546	83,927	63,319	38,108	61,081	29,989	14,241	9,969	86,389	29,691	(D)	(D)
West North Central	160,712	49,299	79,721	41,386	29,012	23,657	7,474	5,852	56,514	25,745	6,467	7,865
Minnesota	25,372	8,645	11,234	5,579	7,127	5,056	1,549	1,298	4,378	2,572	(D)	(D)
Iowa	78,699	24,427	22,338	15,007	5,144	3,993	1,597	1,367	47,710	18,651	-	-
Missouri	27,306	7,548	38,416	15,453	11,226	9,385	2,617	1,918	1,835	1,711	(D)	(D)
North Dakota	663	258	(D)	(D)	-	-	-	-	(D)	(D)	-	-
South Dakota	607	267	-	-	(D)	(D)	-	-	-	-	-	-
Nebraska	7,695	2,730	(D)	(D)	(D)	(D)	1,390	1,053	(D)	(D)	-	-
Kansas	20,370	5,424	5,230	3,732	2,533	2,854	321	216	1,812	2,475	(D)	(D)
South Atlantic	134,004	44,660	37,126	24,902	40,262	23,750	4,181	3,000	28,186	16,327	2,362	3,977
Delaware	850	269	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
Maryland	68,545	24,774	8,763	5,548	8,812	6,842	534	596	(D)	(D)	(D)	(D)
District of Columbia	61	20	(D)	(D)	(D)	(D)	11	9	-	-	-	-
Virginia	5,404	1,893	1,880	1,208	1,685	689	862	616	227	179	(D)	(D)
West Virginia	9,390	1,121	(D)	(D)	16,787	3,064	143	104	(D)	(D)	-	-
North Carolina	12,802	4,169	1,230	906	3,010	4,134	855	692	792	1,104	(D)	(D)
South Carolina	25,320	9,419	545	596	4,793	3,816	(D)	(D)	(D)	(D)	-	-
Georgia	9,223	2,393	987	768	2,724	2,659	1,636	821	283	192	(D)	(D)
Florida	2,409	602	3,321	6,443	2,294	2,410	95	144	(D)	(D)	(D)	(D)
East South Central	77,872	25,468	19,321	11,038	9,014	7,058	4,880	4,000	31,449	15,723	724	328
Kentucky	22,401	6,358	6,387	2,867	2,509	2,173	(D)	(D)	20,006	11,123	-	-
Tennessee	21,564	7,265	6,246	4,418	3,102	2,417	2,019	1,112	10,806	4,305	(D)	(D)
Alabama	26,810	8,930	5,475	2,948	805	836	2,392	1,434	(D)	(D)	-	-
Mississippi	7,097	2,915	1,213	805	2,598	1,632	(D)	(D)	(D)	(D)	(D)	(D)
West South Central	68,712	21,842	44,677	27,982	11,342	7,135	7,557	5,568	28,026	14,350	1,574	1,444
Arkansas	8,634	2,600	3,296	1,141	2,453	1,082	971	575	(D)	(D)	-	-
Louisiana	688	280	3,434	2,421	267	223	822	560	(D)	(D)	(D)	(D)
Oklahoma	8,231	3,295	5,774	4,542	3,581	1,883	1,266	860	2,673	1,663	(D)	(D)
Texas	51,159	15,667	32,173	19,878	5,041	3,947	4,498	3,573	24,682	12,132	1,556	1,365
Mountain	12,629	4,157	5,106	4,949	5,702	6,365	408	336	2,746	3,506	1,210	1,306
Montana	(D)	(D)	19	12	(D)	(D)	-	-	(D)	(D)	-	-
Idaho	875	229	68	58	(D)	(D)	-	-	(D)	(D)	-	-
Wyoming	-	-	(D)	(D)	-	-	-	-	-	-	-	-
Colorado	10,622	3,556	2,255	1,598	1,910	2,795	373	308	1,712	1,368	(D)	(D)
New Mexico	(D)	(D)	57	34	(D)	(D)	-	-	(D)	(D)	-	-
Arizona	476	138	(D)	(D)	1,914	1,715	-	-	740	1,295	92	158
Utah	618	222	205	268	1,026	1,268	35	28	-	-	(D)	(D)
Nevada	-	-	-	-	(D)	(D)	-	-	-	-	-	-
Pacific	72,971	26,593	61,476	45,644	45,285	36,745	23,934	16,096	32,148	23,906	7,367	9,698
Washington	(D)	(D)	(D)	(D)	3,703	2,274	1,068	909	8,599	891	(D)	(D)
Oregon	4,197	1,443	16,922	6,435	2,784	1,945	765	196	1,745	1,673	-	-
California	65,797	24,158	39,605	35,867	38,798	32,526	22,101	14,991	21,804	21,342	(D)	(D)
Hawaii	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1] The data shown in this table represent purchases by metal fabricating plants from other establishments including interplant transfers between establishments operated by the same company. Statistics for castings and forgings produced and consumed in the same plant are excluded.

TABLE 2E. Consumption of Nonferrous Refinery Shapes, by Divisions and States: 1963

Division and State [1]	Copper and copper-base alloy (333121, 333122, and 333123)[2]		Zinc and zinc-base alloy (333341 and 333348)[2]		Aluminum and aluminum base alloy (333401, 333404, 333405, and 333471)[2]	
	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)
United States, Total	1,780,220	1,080,479	892,771	227,296	2,893,551	1,350,386
New England	248,329	154,634	48,093	12,741	23,525	11,158
Maine	193	130	(D)	(D)	(D)	(D)
New Hampshire	1,444	863	-	-	(D)	(D)
Vermont	-	-	(D)	(D)	-	-
Massachusetts	16,646	10,685	4,929	1,552	11,121	5,414
Rhode Island	46,318	29,651	400	118	1,306	561
Connecticut	183,728	113,305	42,494	11,029	10,421	4,768
Middle Atlantic	578,141	341,974	146,828	38,066	373,485	165,517
New York	188,321	117,553	68,295	17,641	183,958	80,425
New Jersey	232,712	145,600	27,956	7,755	70,120	33,645
Pennsylvania	157,108	78,821	50,577	12,670	119,407	51,447
East North Central	710,088	434,659	493,871	125,503	1,046,443	467,803
Ohio	106,134	64,265	126,838	31,424	404,669	176,097
Indiana	248,192	153,724	101,739	23,529	200,164	86,136
Illinois	216,695	128,474	107,184	26,615	275,119	126,208
Michigan	85,935	54,258	142,858	39,905	117,289	57,568
Wisconsin	53,132	33,938	15,252	4,030	49,202	21,794
West North Central	(D)	(D)	21,972	5,728	(D)	(D)
Minnesota	2,575	1,645	5,358	1,374	6,021	2,623
Iowa	1,924	2,012	2,759	741	(D)	(D)
Missouri	(D)	(D)	12,419	3,283	25,467	12,729
Nebraska	204	162	(D)	(D)	1,043	477
Kansas	543	376	(D)	(D)	2,477	1,188
South Atlantic	60,515	36,317	65,621	16,199	362,708	162,703
Delaware	(D)	(D)	(D)	(D)	(D)	(D)
Maryland	(D)	(D)	(D)	(D)	(D)	(D)
Virginia	374	210	(D)	(D)	(D)	(D)
West Virginia	10,836	5,992	27,822	6,822	(D)	(D)
North Carolina	854	457	(D)	(D)	10,448	4,397
South Carolina	(D)	(D)	-	-	4,395	2,046
Georgia	(D)	(D)	(D)	(D)	57,846	22,722
Florida	334	204	987	276	17,520	8,451
East South Central	22,879	13,896	49,932	12,665	(D)	(D)
Kentucky	(D)	(D)	(D)	(D)	(D)	(D)
Tennessee	(D)	(D)	1,748	471	(D)	(D)
Alabama	19,772	12,189	(D)	(D)	(D)	(D)
Mississippi	-	-	(D)	(D)	(D)	(D)
West South Central	9,342	5,212	15,185	3,634	52,395	22,589
Arkansas	1,379	795	(D)	(D)	26,311	10,541
Louisiana	(D)	(D)	(D)	(D)	(D)	(D)
Oklahoma	(D)	(D)	7,032	1,614	(D)	(D)
Texas	7,188	3,946	7,992	1,983	22,863	10,495
Mountain	(D)	(D)	3,546	859	40,819	19,968
Montana	(D)	(D)	-	-	(D)	(D)
Colorado	(D)	(D)	(D)	(D)	831	342
Arizona	-	-	(D)	(D)	(D)	(D)
Utah	(D)	(D)	-	-	451	194
Nevada	-	-	-	-	(D)	(D)
Pacific	48,215	28,985	47,723	11,901	325,465	152,664
Washington	(D)	(D)	337	90	(D)	(D)
Oregon	(D)	(D)	2,550	582	(D)	(D)
California	47,702	28,719	44,836	11,229	140,514	61,156

Note: Statistics showing pig iron consumption by division and State for 1963 are available in Current Industrial Reports Series M33A(64)-9, "Iron and Steel Foundries and Steel Ingot Producers (Report on Products Shipped and Materials Used), tables 11-16.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1] Consumption of refinery shapes on a toll basis is included on the basis of the location of the establishment owning the materials rather than the location of the processing establishment.

[2] Includes interplant transfers from establishments owned by the same company.

TABLE 2F. Consumption of Metal Scrap, by Divisions and States: 1963

Division and State	Iron and steel (999811)		Copper and copper-base alloy (999812)		Aluminum and aluminum-base alloy (999808, 999809, and 999810)	
	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)	Quantity (short tons)	Delivered cost ($1,000)
United States, Total	37,122,168	1,011,355	855,973	410,228	832,759	232,821
New England	272,259	11,074	135,012	68,624	10,681	3,271
Maine	1,290	47	-	-	-	-
New Hampshire	5,831	194	-	-	(D)	(D)
Vermont	2,695	96	-	-	-	-
Massachusetts	103,562	3,770	(D)	(D)	(D)	(D)
Rhode Island	57,582	1,562	(D)	(D)	(D)	(D)
Connecticut	101,290	5,405	114,894	58,872	(D)	(D)
Middle Atlantic	7,925,153	205,874	279,383	133,069	164,333	45,855
New York	924,535	23,001	96,066	43,541	100,054	18,482
New Jersey	535,641	16,042	70,149	35,744	20,550	7,033
Pennsylvania	6,464,977	166,831	113,168	53,784	43,729	20,340
East North Central	18,823,528	525,996	295,390	138,259	414,630	116,627
Ohio	5,285,685	153,834	62,017	30,109	188,738	56,047
Indiana	3,358,296	94,926	(D)	(D)	61,280	19,060
Illinois	4,193,221	118,668	88,872	39,785	138,919	34,387
Michigan	5,537,619	141,580	88,959	41,857	16,206	5,629
Wisconsin	448,707	17,188	(D)	(D)	9,487	1,504
West North Central	1,399,569	38,983	25,547	12,461	43,845	13,601
Minnesota	173,165	4,143	(D)	(D)	(D)	(D)
Iowa	318,366	9,063	(D)	(D)	(D)	(D)
Missouri	853,911	23,933	10,602	5,152	(D)	(D)
North Dakota	(D)	(D)	-	-	(D)	(D)
Nebraska	(D)	(D)	(D)	(D)	(D)	(D)
Kansas	41,277	1,369	(D)	(D)	(D)	(D)
South Atlantic	2,737,481	64,884	32,048	13,001	55,667	16,388
Delaware	(D)	(D)	(D)	(D)	(D)	(D)
Maryland	830,658	12,986	(D)	(D)	(D)	(D)
Virginia	281,584	7,705	(D)	(D)	(D)	(D)
West Virginia	(D)	(D)	(D)	(D)	(D)	(D)
North Carolina	103,734	3,502	(D)	(D)	(D)	(D)
South Carolina	71,193	1,706	(D)	(D)	-	-
Georgia	(D)	(D)	(D)	(D)	(D)	(D)
Florida	112,160	2,489	-	-	(D)	(D)
East South Central	2,235,994	67,340	23,522	12,458	61,017	14,388
Kentucky	943,116	28,946	(D)	(D)	(D)	(D)
Tennessee	(D)	(D)	(D)	(D)	(D)	(D)
Alabama	1,069,697	31,506	21,974	11,936	40,430	7,208
Mississippi	(D)	(D)	-	-	-	-
West South Central	1,533,290	39,754	8,619	4,328	22,398	5,193
Arkansas	6,491	247	(D)	(D)	(D)	(D)
Louisiana	20,443	803	(D)	(D)	-	-
Oklahoma	132,405	3,596	(D)	(D)	-	-
Texas	1,373,951	35,108	7,974	3,984	(D)	(D)
Mountain	652,791	16,088	891	506	1,071	353
Montana	(D)	(D)	(D)	(D)	-	-
Idaho	(D)	(D)	-	-	(D)	(D)
Colorado	(D)	(D)	111	35	(D)	(D)
Arizona	(D)	(D)	-	-	(D)	(D)
Utah	(D)	(D)	(D)	(D)	(D)	(D)
Nevada	-	-	-	-	(D)	(D)
Pacific	1,543,103	41,362	55,561	27,522	59,117	17,145
Washington	212,724	5,074	(D)	(D)	(D)	(D)
Oregon	(D)	(D)	(D)	(D)	(D)	(D)
California	1,150,324	30,568	51,329	25,190	51,920	15,906
Hawaii	(D)	(D)	-	-	-	-

Note: The data represent only the consumption of purchased scrap in selected industries. No data are available on the quantities of "home" scrap consumed.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

ENGINES, MOTORS, BEARINGS, ELECTRON TUBES, AND SEMICONDUCTORS

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ENGINES, MOTORS, BEARINGS, ELECTRON TUBES, AND SEMICONDUCTORS

This section presents data on gasoline and Diesel engines, motors, and generators (timing. synchronous, subsynchronous, fractional and integral horsepower), ball bearings, roller bearings, electron tubes, and solid state semiconductors consumed.

Tables 1A through 1D present data for consumption of these components by industry. Geographic data are presented in tables 2A through 2D. Comparable 1958 data for the number and cost of electron tubes and solid-state semiconductors are not available. For 1963, separate data are shown for the consumption of ball bearings and roller bearings. Data for 1958 reflect the total cost of ball and roller bearings.

The consumption figures for the parts and components shown account for most of the amounts used by establishments classified in manufacturing. The shipments figures for these items, however, also include amounts for exports, for use in nonmanufacturing activities, and for replacement and repair.

TABLE 1A. Internal Combustion Engines Consumed, by Selected Industries: 1963 and 1958

Code	Industry	Engines received from other establishments							
		Gasoline engines (351901)				Diesel engines (351920)			
		1963		1958		1963		1958	
		Number	Delivered cost ($1,000)	Number	Delivered cost ($1,000)	Number	Delivered cost ($1,000)	Number	Delivered cost ($1,000)
	Total	[1]3,451,634	162,219	(NA)	145,055	[1]108,827	161,660	48,821	105,778
3522	Farm machinery and equipment[2]	3,243,659	108,896	2,684,840	97,820	58,185	28,094	16,044	12,497
3531	Construction machinery[2]	43,169	14,553	40,935	14,498	42,130	87,578	27,994	56,684
3532	Mining machinery and equipment[2]	632	293	744	191	505	1,536	275	869
3533	Oil field machinery[2]	563	720	1,479	1,967	843	3,334	695	2,460
3535	Conveyors	856	211	1,748	121	(X)	(X)	(X)	(X)
3536	Hoists, cranes, and monorails	1,696	280	406	221	49	284	28	160
3537	Industrial trucks and tractors	29,485	11,195	18,422	6,469	(X)	(X)	195	249
3561	Pumps and compressors[2]	104,597	7,875	71,565	5,766	2,047	6,496	1,440	4,663
3586	Measuring and dispensing pumps	1,002	192	(NA)	(NA)	(X)	(X)	(X)	(X)
3621	Motors and generators	7,359	2,915	12,755	4,207	2,744	5,111	819	2,432
3731	Ship building and repairing	(NA)	645	331	336	(NA)	8,149	449	10,336
3732	Boat building and repairing[2]	18,616	15,089	10,578	8,064	572	2,865	451	2,702
3741	Locomotives and parts[2]	(X)	(X)	(X)	(X)	(D)	(D)	431	12,726
3742	Railroad and street cars	(X)	(X)	(X)	(X)	(D)	(D)	(NA)	(NA)
	All other industries[3]	-	-	(NA)	5,395	(X)	(X)	(X)	(X)

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1]Excludes figures for industry 3731, Shipbuilding and repairing. These suppressed quantities appear to account for less than 1 percent of the totals consumed by all industries.

[2]In addition the following quantities of engines were produced and incorporated into other products within the same establishment:

Gasoline Engines (351901)			Diesel Engines (351920)		
Industry code	Number		Industry code	Number	
	1963	1958		1963	1958
3522	75,721	194,898	3522,3531, 3561, 3741	(D)	18,392
3531	9,415	8,326			
3532, 3533, 3561, 3732	5,191	1,584			

[3]Represents data for Industries 1931, "Tanks and Tank components," 1999, "Ordance and Accessories, n.e.c.," and 3599, Special Industry Machinery, n.e.c."

TABLE 1B. Cost of Ball and Roller Bearings Consumed, by Selected Industries: 1963 and 1958

Code	Industry	Delivered cost ($1,000)				Code	Industry	Delivered cost ($1,000)			
		1963			1958 total			1963			1958 total
		Total	Ball bearings (356218)	Roller bearings (356228)				Total	Ball bearings (356213)	Roller bearings (356229)	
	Total[1]	451,408	217,939	233,469	274,480	3571	Computing and related machines.	3,380	3,146	234	[2]4,000
						3572	Typewriters	530	(D)	(D)	(NA)
3433	Heating equipment, except electric	538	(D)	(D)	258	3576	Scales and balances	89	(D)	(D)	(NA)
						3579	Office machines, n.e.c	466	(D)	(D)	(NA)
3511	Steam engines and turbines	449	321	128	1,020	3585	Refrigeration machinery	3,072	2,716	356	(NA)
3519	Internal combustion engines	5,330	3,268	2,062	3,892	3586	Measuring and dispensing pumps.	339	192	147	(NA)
3522	Farm machinery and equipment	38,352	22,052	16,300	29,967						
3531	Construction machinery	24,941	9,784	15,157	17,616	3611	Electric measuring instruments.	862	(D)	(D)	410
3532	Mining machinery and equipment.	2,779	1,216	1,563	1,379	3621	Motors and generators	20,854	19,029	1,825	12,157
						3632	Household refrigerators	3,218	3,218	-	(NA)
3533	Oil field machinery	4,345	1,665	2,680	3,221	3694	Engine electrical equipment	8,646	(D)	(D)	6,069
3534	Elevators and moving stairways.	1,619	1,221	398	(NA)						
3535	Conveyors	4,723	2,920	1,803	(NA)	3713	Truck and bus bodies	123	(D)	(D)	140
3536	Hoists, cranes, and monorails	2,749	974	1,775	245	3715	Truck trailers	1,331	284	1,047	651
3537	Industrial trucks and tractors.	3,725	1,949	1,776	[2]3,000	3717	Motor vehicles and parts	156,702	47,724	108,978	90,264
						3721	Aircraft	5,117	3,158	1,959	12,206
3541	Metal-cutting machine tools	10,408	6,528	3,880	6,260	3722	Aircraft engines and parts	17,316	8,837	8,479	15,813
3542	Metal-forming machine tools	1,865	609	1,256	1,588						
3544	Special dies and tools	1,085	448	637	([3])	3729	Aircraft equipment, n.e.c	10,277	8,186	2,091	5,998
3545	Machine tool accessories	1,052	836	216	560	3742	Railroad and street cars	15,168	(D)	(D)	3,221
3548	Metalworking machinery, n.e.c.	10,253	6,136	4,117	5,576	3751	Motor cycles, bicycles and parts	904	(D)	(D)	(NA)
3551	Food products machinery	4,097	2,279	1,818	1,835	3791	Trailer coaches	79	(D)	(D)	(NA)
3552	Textile machinery	6,422	5,528	894	3,188	3799	Transportation equipment, n.e.c	660	267	393	239
3553	Woodworking machinery	2,499	1,711	788	1,738						
3554	Paper industries machinery	4,125	3,220	905	3,415						
3555	Printing trades machinery	3,007	1,892	1,115	(NA)	3811	Scientific instruments	2,161	(D)	(D)	6,239
						3821	Mechanical measuring devices	905	821	84	530
3559	Special industry machines, n.e.c	5,421	2,998	2,423	3,824	3822	Automatic temperature controls.	111	(D)	(D)	(NA)
3561	Pumps and compressors	16,136	4,218	11,918	5,097	3831	Optical instruments and lenses.	87	87	-	(NA)
3562	Ball and roller bearings	14,467	10,780	3,687	3,297	1925	Complete guided missiles	1,040	(D)	(D)	1,311
3564	Blowers and fans	3,784	3,162	622	2,223	1929	Ammunition, n.e.c	54	(D)	(D)	([3])
3566	Power transmission equipment	16,184	9,623	6,561	8,559	1931	Tanks and tank components	1,255	(D)	(D)	([3])
3569	General industry machines, n.e.c	1,240	928	312	377		All other industries[4]	5,067	930	4,137	7,097

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. [r]Revised.

n.e.c. Not elsewhere classified.

[1]Data for 1958 are not strictly comparable with 1963. In 1963 figures on consumption of ball and roller bearings were collected for several industries which were not included in this program in the 1958 Census of Manufactures. Such industries are identified by the entry "NA".

[2]Represents estimates published in MC58(1)-7 (Supplement), "Selected Materials Consumed", from data collected in a supplemental survey on Form MA-131, "Consumption of Materials, Parts, Containers and Supplies During 1958". This survey was limited to large establishments in selected chemical, machinery and equipment industries and resulted in estimates which are subject to greater error than are the figures on materials consumption collected as a regular part of the census of manufactures.

[3]Included with "All other industries" to avoid disclosing individual company figures.

[4]For 1963 includes industries 3741, "Locomotive and parts"; 1951, "Small arms, 30 mm and under"; 1961, "Small arms ammunition"; 1911, "Guns, howitzers, and mortars"; and 1999, "Ordnance and accessories, n.e.c.". For 1958 includes industries 3544, "Special dies and tools"; 3631, "Household cooking equipment"; 3723, "Aircraft propellers and parts"; 3741, "Locomotives and parts"; 1929, "Ammunition, n.e.c."; 1931, "Tanks and tank components"; 1941, "Sighting and fire control equipment"; 1951 "Small arms, 30 mm and under"; 1911, "Guns, howitzers, and mortars"; and 1999, "Ordnance and accessories, n.e.c.". Separate data are available for selected of these industries for 1958 as follows: 3741, "Locomotives and parts", $2,887 thousand; 3631, "Household cooking equipment", $150 thousand; 1951, "Small arms, 30 mm and under, $14 thousand.

TABLE 1C. Electric Motors and Generators Consumed, by Selected Industries: 1963 and 1958

Code	Industry	Year	Timing motors, synchronous and subsynchronous (362110)			All other fractional horsepower motors (362115)			Integral horsepower motors and generators (362120)		
			Received from other establishments		Number produced and consumed in same establishment	Received from other establishments		Number produced and consumed in same establishment	Received from other establishments		Number produced and consumed in same establishment
			Number (1,000)	Value ($1,000)	(1,000)	Number (1,000)	Value ($1,000)	(1,000)	Number (1,000)	Value ($1,000)	(1,000)
	TOTAL	1963	19,118	76,268	12,396	57,523	358,567	13,962	4,390	268,608	147
		1958	(NA)	70,067	2,699	34,915	287,063	9,916	2,632	242,003	143
3433	Heating equipment, except electric	1963	719	8,087	-	1,567	17,865	(1)	24	1,728	-
		1958	430	5,030	-	1,807	20,191	120	15	1,284	(2)
3511	Steam engines and turbines	1963	-	-	-	-	-	-	2	9,576	-
		1958	-	-	-	1	49	-	(1)	(1)	-
3519	Internal combustion engines	1963	-	-	-	-	-	-	78	15,124	(1)
		1958	-	-	-	(1)	(1)	-	57	7,619	-
3522	Farm machinery and equipment	1963	-	-	-	118	2,366	2	68	4,466	(1)
		1958	-	-	-	156	2,812	(1)	30	3,474	(2)
3531	Construction machinery	1963	-	-	-	39	684	1	27	16,887	9
		1958	-	-	-	24	538	(2)	18	7,634	5
3532	Mining machinery and equipment	1963	-	-	-	2	149	(1)	10	8,784	(1)
		1958	-	-	-	(1)	(1)	-	5	3,681	-
3534	Elevators and moving stairways	1963	-	-	-	13	779	(1)	9	4,081	(1)
		1958	-	-	-	7	375	-	7	3,462	(2)
3535	Conveyors	1963	-	-	-	37	2,649	(2)	20	3,451	(1)
		1958	-	-	-	18	1,219	(2)	14	3,436	(2)
3536	Hoists, cranes, and monorails	1963	-	-	-	20	859	(1)	21	7,165	(1)
		1958	-	-	-	16	699	(2)	12	4,170	(2)
3537	Industrial trucks and tractors	1963	-	-	-	9	614	(1)	22	2,317	7
		1958	-	-	-	9	313	-	8	911	(2)
3541	Metal-cutting machine tools	1963	12	1,189	(2)	93	3,537	(1)	67	11,271	(2)
		1958	19	905	(2)	34	1,404	-	40	8,106	(2)
3542	Metal-forming machine tools	1963	(NA)	214	(2)	7	354	-	17	5,767	(2)
		1958	(NA)	226	-	14	762	-	12	4,688	-
3544	Special dies and tools	1963	3,320	108	(2)	2	111	(1)	2	457	(1)
		1958	(1)	(1)	-	(1)	(1)	-	1	172	-
3545	Machine tool accessories	1963	(1)	(1)	-	13	384	(1)	4	1,096	(1)
		1958	6	165	(2)	7	226	-	3	355	-
3548	Metal working machinery, n.e.c	1963	189	1,968	-	364	4,813	2,007	7	3,682	(1)
		1958	(1)	(1)	-	(1)	(1)	(1)	4	1,257	-
3551	Food products machinery	1963	-	-	-	86	3,033	(1)	51	8,745	(1)
		1958	(1)	(1)	-	66	2,042	(2)	24	5,028	(2)
3552	Textile machinery	1963	-	-	-	(1)	(1)	(1)	25	4,433	45
		1958	-	-	-	-	-	-	17	2,483	-
3553	Woodworking machinery	1963	5	65	-	7	235	(1)	39	2,901	(1)
		1958	4	88	-	33	1,080	-	7	1,572	(2)
3554	Paper industries machinery	1963	-	-	-	(1)	(1)	-	8	5,433	(1)
		1958	-	-	-	-	-	-	9	5,190	-
3555	Printing trades machinery	1963	-	-	-	30	1,092	1	9	4,471	(1)
		1958	-	-	-	17	474	-	6	1,620	-
3559	Special industry machines, n.e.c	1963	-	-	-	53	2,106	(2)	51	11,199	(1)
		1958	-	-	-	40	1,500	(1)	24	6,633	(2)
3561	Pumps and compressors	1963	-	-	-	1,422	24,563	420	232	26,941	13
		1958	-	-	-	1,447	23,521	466	188	27,509	4
3564	Blowers and fans	1963	85	1,132	1	218	4,759	(1)	90	7,298	(1)
		1958	468	4,272	-	236	2,841	-	43	4,734	-
3569	General industry machines, n.e.c	1963	(1)	(1)	-	51	1,887	(1)	19	2,070	(2)
		1958	-	-	-	27	877	144	7	7,110	131
3571	Computing and related machines	1963	(NA)	1,613	-	353	7,920	(1)	13	4,072	-
		1958	286	632	-	287	5,135	-	3	581	-
3572	Typewriters	1963	(1)	(1)	-	688	4,106	-	-	-	-
		1958	(1)	(1)	(1)	(1)	(1)	(1)	-	-	-
3576	Scales and balances	1963	3	51	-	11	303	-	(NA)	54	-
		1958	(1)	(1)	-	(1)	(1)	-	6	286	-
3579	Office machines, n.e.c	1963	50	220	-	150	1,885	(1)	(1)	(1)	-
		1958	185	734	-	89	1,084	(1)	-	-	-
3581	Automatic vending machines	1963	958	3,382	-	174	1,717	(1)	(1)	(1)	-
		1958	54	254	-	220	2,011	-	(1)	(1)	-
3582	Commercial laundry equipment	1963	59	653	-	68	1,365	-	19	2,939	-
		1958	11	143	-	59	1,898	-	13	1,823	-
3585	Refrigeration machinery	1963	(NA)	5,302	(1)	8,435	61,945	(2)	3,367	68,694	-
		1958	714	6,952	(2)	5,745	49,852	(1)	1,865	52,474	(2)
3586	Measuring and dispensing pumps	1963	-	-	-	121	3,099	(1)	3	248	-
		1958	-	-	-	99	3,103	-	(NA)	(NA)	-
3589	Service industry machine, n.e.c	1963	68	1,116	(1)	244	3,439	9	35	2,303	(1)
		1958	57	694	(1)	123	2,400	(1)	34	2,045	(2)
3611	Electric measuring instruments	1963	283	1,764	(1)	106	832	(1)	-	-	-
		1958	34	413	-	20	533	-	-	-	-
3621	Motors and generators	1963	-	-	-	(1)	(1)	(1)	10	6,101	(1)
		1958	-	-	-	13	285	-	11	10,467	-

See footnotes at end of table.

TABLE 1C. Electric Motors and Generators Consumed, by Selected Industries: 1963 and 1958—Continued

Code	Industry	Year	Timing motors, synchronous and subsynchronous (362110)			All other fractional horsepower motors (362115)			Integral horsepower motors and generators (362120)		
			Received from other establishments		Number produced and consumed in same establishment	Received from other establishments		Number produced and consumed in same establishment	Received from other establishments		Number produced and consumed in same establishment
			Number (1,000)	Value ($1,000)	(1,000)	Number (1,000)	Value ($1,000)	(1,000)	Number (1,000)	Value ($1,000)	(1,000)
3631	Household cooking equipment	1963	493	719	-	409	1,949	-	-	-	-
		1958	344	1,961	-	161	1,204	-	-	-	-
3632	Household refrigerators	1963	1,103	4,488	-	9,822	53,999	-	[1]	[1]	-
		1958	[1]	[1]	-	2,482	20,519	-	106	2,805	-
3633	Household laundry equipment	1963	1,590	4,302	-	5,876	52,412	[1]	-	-	-
		1958	1,815	3,001	-	4,762	53,135	[1]	-	-	-
3634	Electric housewares and fans	1963	238	2,315	-	6,193	14,550	8,388	-	-	-
		1958	545	1,890	763	2,228	6,342	5,557	[1]	[1]	-
3635	Household vacuum cleaners	1963	[1]	[1]	-	[1]	[1]	[1]	-	-	-
		1958	-	-	-	899	5,217	1,619	[1]	[1]	-
3636	Sewing machines	1963	-	-	-	218	1,225	-	-	-	-
		1958	[1]	[1]	-	106	776	-	-	-	-
3639	Household appliances, n.e.c	1963	534	2,147	-	2,141	13,501	[1]	-	-	-
		1958	171	845	-	1,354	10,722	435	1	104	-
3651	Radio and TV receiving sets	1963	1,157	2,892	-	1,618	6,352	[1]	-	-	-
		1958	824	4,862	[1]	871	2,862	30	-	-	-
3662	Radio, TV communications equipment	1963	191	9,176	3	414	11,690	9	-	-	-
		1958	(NA)	8,280	[2]	176	10,184	-	-	-	-
3679	Electronic components, n.e.c	1963	[1]	[1]	[1]	426	1,366	[1]	-	-	-
		1958	114	524	[1]	1,782	5,886	[2]	-	-	-
3717	Motor vehicles and parts	1963	-	-	-	7,233	20,968	[1]	-	-	-
		1958	-	-	-	6,726	22,126	-	-	-	-
3721	Aircraft	1963	3	418	-	7	479	-	1	445	-
		1958	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]
3722	Aircraft engines and parts	1963	[1]	[1]	-	32	3,214	-	1	174	-
		1958	[1]	[1]	[1]	[1]	[1]	[1]	[2]	[1]	[1]
3729	Aircraft equipment, n.e.c	1963	20	1,150	[1]	108	1,862	[1]	20	5,844	[1]
		1958	44	3,223	[1]	30	2,339	[1]	1	839	-
3731	Ship building and repairing	1963	-	-	-	-	-	-	3	5,438	[2]
		1958	-	-	-	-	-	-	4	6,872	[2]
3732	Boat building and repairing	1963	-	-	-	-	-	-	[1]	[1]	[2]
		1958	-	-	-	-	-	-	[2]	96	-
3741	Locomotives and parts	1963	-	-	-	-	-	-	[1]	[1]	[1]
		1958	-	-	-	-	-	-	4	20,196	[2]
3811	Scientific instruments	1963	64	2,814	-	94	3,216	[1]	-	-	-
		1958	220	10,314	-	54	1,834	-	-	-	-
3821	Mechanical measuring devices	1963	207	3,244	[1]	134	1,290	[1]	-	-	-
		1958	98	1,414	-	83	958	-	-	-	-
3822	Automatic temperature control	1963	3,513	2,704	[1]	29	452	[1]	-	-	-
		1958	1,044	1,024	-	12	251	-	-	-	-
3831	Optical instruments and lenses	1963	4	40	-	4	99	-	-	-	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3861	Photographic equipment	1963	570	3,630	[1]	352	1,811	[1]	-	-	-
		1958	9	139	-	1,306	3,193	-	-	-	-
3871	Watches and clocks	1963	1,061	2,231	[1]	[1]	[1]	[1]	-	-	-
		1958	1,259	2,026	[1]	-	-	-	-	-	-
3941	Games and toys	1963	-	-	-	7,397	2,573	[1]	-	-	-
		1958	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3949	Sporting and athletic goods	1963	-	-	-	69	2,088	-	-	-	-
		1958	-	-	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1925	Complete guided missiles	1963	3	334	-	[1]	[1]	-	[1]	[1]	-
		1958	10	183	[1]	[1]	[1]	-	-	-	-
	All other industries	1963	2,616	6,800	12,392	446	4,021	3,125	16	2,953	73
		1958	1,053	9,873	1,936	1,269	12,291	1,545	34	31,287	3

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.
[1] Included with "All other industries".
[2] Less than 1,000 units; data included with "All other industries".

TABLE 1D. Electron Tubes (Except X-Ray) and Solid State Semiconductors Consumed, by Selected Industries: 1963

Code	Industry	Electron tubes (except X-ray) (367010)		Solid state semiconductors (transistors, diodes, etc.) (367408)		Code	Industry	Electron tubes (except X-ray) (367010)		Solid state semiconductors (transistors, diodes, etc.) (367408)	
		Quantity (1,000)	Cost ($1,000)	Quantity (1,000)	Cost ($1,000)			Quantity (1,000)	Cost ($1,000)	Quantity (1,000)	Cost ($1,000)
	Total[1]	289,838	381,719	683,099	321,101	3662	Radio, TV communications equipment	55,857	66,496	123,780	104,248
3571	Computing and related machines	1,071	2,452	257,243	100,830	3671	Electron tubes, receiving type	(2)	(2)	(2)	(2)
3572	Typewriters	(2)	(2)	(2)	(2)	3672	Cathode ray picture tubes	105	793	-	-
3576	Scales and balances	(2)	(2)	(2)	(2)	3673	Electron tubes, transmitting	9,110	2,512	1,960	509
3579	Office machines, n.e.c	76	77	1,105	226	3674	Semiconductors	103	299	8,934	2,519
3611	Electric measuring instruments	8,798	10,190	12,833	9,386	3679	Electronic components, n.e.c	6,792	5,290	15,918	13,718
3621	Motors and generators	204	1,635	1,138	2,081	3699	Electrical products, n.e.c	(2)	(2)	1,655	1,286
3629	Electric industrial goods, n.e.c	1,124	230	23,089	2,109	3811	Scientific instruments	101	283	4,628	3,742
3643	Current carrying devices	-	-	1,658	378	3821	Mechanical measuring devices	1,789	2,470	2,468	4,795
3651	Radio and TV receiving sets	200,089	274,324	128,963	26,180	3822	Automatic temperature controls	(2)	(2)	(2)	(2)
3661	Telephone; telegraph apparatus	1,857	11,645	96,388	48,085	3861	Photographic equipment	226	406	396	445
							All other industries	2,536	2,617	943	564

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

[1] In addition, for 1963, 631,623 thousand electron tubes and 840,058 solid state semiconductors were produced and incorporated into other products at the same establishment.

[2] Included with "All other industries."

TABLE 2A. Internal Combustion Engines Consumed, by Divisions and States: 1963 and 1958

Division and State	Engines received from other establishments							
	1963				1958			
	Gasoline engines (351901)		Diesel engines (351920)		Gasoline engines (351901)		Diesel engines (351920)	
	Number [1]	Delivered cost ($1,000)	Number [1]	Delivered cost ($1,000)	Number [1]	Delivered cost ($1,000)	Number [1]	Delivered cost ($1,000)
United States, total	[2]3,451,634	162,219	[2]108,827	161,660	(NA)	145,055	48,821	105,778
New England	4,938	706	267	1,439	6,201	448	30	335
New Hampshire	1,894	308	(D)	(D)	(D)	(D)	(D)	(D)
Massachusetts	612	86	235	1,201	(D)	(D)	(D)	(D)
Middle Atlantic	48,884	10,423	3,744	17,423	92,559	10,967	2,201	17,702
New York	4,771	1,250	1,855	2,765	4,565	2,110	702	5,745
New Jersey	15,125	2,986	632	1,254	18,172	2,258	179	490
Pennsylvania	28,988	6,187	1,257	13,404	69,822	6,599	1,320	11,467
East North Central	2,234,578	92,907	74,861	103,798	(NA)	89,675	37,745	63,929
Ohio	1,102,874	32,656	7,182	17,451	(NA)	25,206	5,540	13,058
Indiana	410,810	11,299	1,965	4,406	513,554	10,293	2,932	5,011
Illinois	388,993	24,456	39,077	57,871	231,829	22,548	22,712	31,441
Michigan	97,159	11,461	21,739	15,075	160,713	20,247	2,132	4,813
Wisconsin	234,742	13,035	4,898	8,995	305,134	11,381	4,429	9,606
West North Central	687,793	30,546	22,126	13,802	661,429	26,669	5,848	7,795
Minnesota	251,798	8,759	1,130	3,880	185,378	6,227	142	528
Iowa	186,170	12,160	6,969	7,482	211,209	9,953	5,516	5,236
Missouri	99,176	4,609	13,867	2,039	164,979	6,964	[3]	[3]
Nebraska	[3]	[3]	(D)	(D)	(D)	(D)	(D)	(D)
Kansas	8,506	1,736	96	363	97,890	3,368	-	-
South Atlantic	195,983	9,180	3,139	4,103	164,683	6,182	924	4,093
Maryland	2,403	1,680	68	534	[3]	[3]	93	527
North Carolina	1,619	949	(D)	(D)	[3]	[3]	[3]	[3]
Georgia	172,655	4,334	[3]	[3]	151,235	3,583	[3]	[3]
Florida	10,920	1,623	211	1,086	4,110	639	181	1,373
East South Central	172,170	7,636	807	3,801	49,755	2,264	201	559
Kentucky	22,466	1,833	(D)	(D)	(D)	(D)	(D)	(D)
Tennessee	(3)	(3)	442	1,607	(3)	(3)	(D)	(D)
Mississippi	125,806	3,663	158	1,858	(D)	(D)	(D)	(D)
West South Central	28,640	4,224	1,152	5,173	11,486	3,918	1,201	5,462
Louisiana	(D)	(D)	162	969	2,491	378	88	324
Oklahoma	7,591	947	277	1,042	3,567	1,413	272	1,443
Texas	18,390	3,087	713	3,162	5,428	2,127	841	3,695
West	78,648	6,597	2,731	12,121	(NA)	4,932	671	5,903
Idaho	1,580	277	-	-	(D)	(D)	(D)	(D)
Colorado	853	135	(D)	(D)	(D)	(D)	(D)	(D)
Utah	399	271	(D)	(D)	(D)	(D)	[3]	[3]
Washington	10,761	1,082	1,733	9,101	12,725	490	75	2,634
Oregon	1,872	701	75	196	1,623	766	[3]	[3]
California	63,154	4,104	852	2,698	(NA)	3,190	323	2,031

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1] Excludes engines produced and incorporated into other products within the same establishments.

[2] See footnote 1, table 1A.

[3] Consumption of more than $500 thousand of engines was reported for the following states but the exact figures are withheld to avoid disclosure of individual company figures: for 1958 for gasoline engines-Maryland, North Carolina, Tennessee, and Alabama; for Diesel engines-Missouri, North Carolina, Georgia, Utah, and Oregon: for 1963 for gasoline engines-Nebraska and Tennessee; For Dieselengines-Georgia.

TABLE 2B. Cost of Ball (356218) and Roller (356228) Bearings Consumed, by Divisions and States: 1963 and 1958

Division and State	Delivered cost ($1,000)				Division and State	Delivered cost ($1,000)			
	1963			1958 ball and roller bearings, total (359311)		1963			1958 ball and roller bearings, total (359311)
	Total	Ball bearings (356218)	Roller bearings (356228)			Total	Ball bearings (356218)	Roller bearings (356228)	
United States, total	451,408	217,939	233,469	[1]267,241	South Atlantic	15,347	8,245	7,102	5,035
					Maryland	4,851	(D)	(D)	1,567
					Virginia	494	(D)	(D)	([3])
New England	19,542	14,596	4,946	13,450	West Virginia	1,742	216	1,526	499
Maine	212	112	100	([2])	North Carolina	2,997	2,275	722	830
New Hampshire	526	376	150	299	South Carolina	2,744	2,117	627	424
Vermont	702	414	288	426	Georgia	2,009	1,314	695	938
Massachusetts	7,666	6,203	1,463	4,137	Florida	496	345	151	([3])
Rhode Island	480	378	102	([2])					
Connecticut	9,956	7,113	2,843	7,712	East South Central	11,132	6,000	5,132	3,087
					Kentucky	1,924	1,275	649	987
					Tennessee	2,476	1,736	740	952
Middle Atlantic	71,584	33,312	38,272	36,622	Alabama	3,887	431	3,456	271
New York	43,664	20,051	23,613	10,641	Mississippi	2,845	2,558	287	886
New Jersey	6,751	4,526	2,225	12,386					
Pennsylvania	21,169	8,735	12,434	12,595	West South Central	9,975	5,181	4,794	12,771
					Arkansas	830	530	300	([3])
					Louisiana	572	329	243	([3])
East North Central	278,339	125,948	152,391	168,559	Oklahoma	1,384	803	581	1,727
Ohio	57,487	28,051	29,436	29,972	Texas	7,189	3,519	3,670	10,645
Indiana	45,744	22,990	22,754	27,741					
Illinois	50,903	28,944	21,959	33,334	Mountain	3,868	2,151	1,717	2,225
Michigan	103,544	32,061	71,483	63,625	Idaho	278	241	37	([3])
Wisconsin	20,661	13,902	6,759	13,887	Colorado	1,868	1,116	752	670
					Arizona	1,575	(D)	(D)	([2])
West North Central	23,739	12,766	10,973	16,725	Utah	116	(D)	(D)	-
Minnesota	4,289	3,106	1,183	2,556					
Iowa	11,185	4,773	6,412	9,932	Pacific	17,882	9,740	8,142	8,767
Missouri	4,209	2,387	1,822	2,549	Washington	3,071	560	2,511	([2])
Nebraska	558	355	203	([2])	Oregon	706	(D)	(D)	([3])
Kansas	3,370	2,048	1,322	1,306	California	14,074	8,875	5,199	7,966

Note: Data for 1963 and 1958 are not strictly comparable. This results from the fact that many industries included in this tabulation for 1963 were excluded in 1958. See table 1B for list of such industries.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1]Excludes industries 3537 and 3571 for which data by state are not available.

[2]Over $250 thousand but the exact figures are withheld to avoid disclosure of individual company figures. Delaware also had over $250 thousand consumption in 1958.

[3]$250 thousand or less in 1958.

TABLE 2C. Electric Motors and Generators Received from Other Establishments, by Divisions and States: 1963 and 1958

Division and State	Timing motors, synchronous, and subsynchronous (362110)				Fractional horsepower motors (362115)				Integral horsepower motors and generators (362120)			
	1963		1958		1963		1958		1963		1958	
	Quantity (1,000)	Value ($1,000)	Quantity (1,000)	Value ($1,000)	Quantity (1,000)	Value ($1,000)	Quantity (1,000)	Value ($1,000)	Quantity (1,000)	Value ($1,000)	Quantity (1,000)	Value ($1,000)
United States, total	19,118	76,268	(NA)	70,067	57,523	358,567	34,904	287,063	4,390	268,608	2,632	238,550
New England	865	7,099	666	4,859	4,332	16,412	848	8,786	85	17,869	102	16,206
Maine	-	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
New Hampshire	257	401	(D)	(D)	(D)	(D)	(D)	(D)	3	1,432	1	810
Vermont	(D)	(D)	(D)	(D)	17	218	1	52	2	491	(D)	(D)
Massachusetts	329	4,468	99	3,178	438	4,654	308	3,083	36	9,537	30	7,592
Rhode Island	(D)	(D)	41	157	202	1,535	(D)	(D)	7	465	7	764
Connecticut	267	2,099	517	1,483	3,671	9,553	454	4,404	(D)	(D)	64	6,588
Middle Atlantic	1,241	15,814	1,788	23,445	14,251	56,317	5,696	40,104	395	58,992	323	65,607
New York	766	10,573	1,015	14,016	8,883	40,111	4,485	27,880	214	29,262	86	37,658
New Jersey	225	2,789	395	6,435	3,202	7,867	768	6,347	44	8,834	59	10,246
Pennsylvania	250	2,452	378	2,994	2,165	8,339	443	5,877	137	20,896	178	17,703
East North Central	13,010	30,987	4,436	21,296	25,524	185,923	20,932	158,301	3,209	136,547	1,915	99,022
Ohio	3,277	10,672	1,219	7,555	10,460	75,299	6,167	56,874	671	40,598	573	35,122
Indiana	1,239	2,685	597	2,589	3,930	25,909	3,519	12,062	213	7,951	113	10,960
Illinois	5,552	11,300	2,216	7,698	4,871	29,060	3,078	26,742	173	25,033	133	13,987
Michigan	2,735	5,329	236	1,544	5,128	44,844	7,147	50,117	2,063	39,945	1,036	26,365
Wisconsin	207	1,001	168	1,910	1,135	10,811	1,021	12,506	88	23,020	60	12,588
West North Central	1,920	6,139	606	2,594	2,805	29,195	2,335	25,652	82	9,493	83	24,936
Minnesota	555	1,316	230	1,552	844	7,176	256	2,348	36	3,165	17	2,649
Iowa	931	2,685	(D)	(D)	1,387	16,379	1,141	13,742	11	1,698	36	2,742
Missouri	414	1,911	90	553	335	3,154	388	5,716	25	2,248	(D)	(D)
North Dakota	-	-	-	-	(D)	(D)	-	-	(D)	(D)	-	-
South Dakota	(D)	(D)	-	-	(D)	(D)	(D)	(D)	(D)	(D)	-	-
Nebraska	-	-	(D)	(D)	26	194	22	343	1	182	(D)	(D)
Kansas	(D)	(D)	(D)	(D)	209	2,242	(D)	(D)	9	2,173	(D)	(D)
South Atlantic	266	1,708	347	4,414	1,325	8,541	431	7,074	97	8,528	21	5,020
Delaware	-	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
Maryland	45	752	(D)	(D)	498	1,732	60	1,430	6	1,110	4	2,628
District of Columbia	-	-	-	-	-	-	-	-	(D)	(D)	-	-
Virginia	3	54	(D)	(D)	147	951	(D)	(D)	(D)	(D)	2	195
West Virginia	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1	534	1	355
North Carolina	2	45	170	857	93	1,300	(D)	(D)	15	2,272	5	770
South Carolina	(D)	(D)	(D)	(D)	50	291	-	-	3	550	1	243
Georgia	48	187	(D)	(D)	120	1,186	123	1,556	8	1,329	7	621
Florida	25	357	4	76	37	860	(D)	(D)	4	328	1	208
East South Central	1,264	3,947	[2]1,558	[2]6,618	6,440	31,117	2,072	17,786	336	9,940	8	1,223
Kentucky	(D)	(D)	(D)	(D)	4,169	26,530	1,787	14,876	285	4,607	4	583
Tennessee	444	2,029	(D)	(D)	1,937	3,616	(D)	(D)	13	544	2	458
Alabama	(D)	(D)	-	-	(D)	(D)	(D)	(D)	6	696	(D)	(D)
Mississippi	(D)	(D)	-	-	(D)	(D)	(D)	(D)	32	4,093	(D)	(D)
West South Central	212	2,593	([2])	([2])	875	9,658	537	5,960	92	7,833	37	10,408
Arkansas	(D)	(D)	(D)	(D)	208	2,799	(D)	(D)	14	680	(D)	(D)
Louisiana	(D)	(D)	(D)	(D)	([1])	4	16	240	2	461	(D)	(D)
Oklahoma	19	372	(D)	(D)	51	1,223	60	465	2	245	2	418
Texas	63	1,295	(D)	(D)	616	5,632	451	4,776	74	6,447	33	9,406
Mountain	29	1,397	27	552	365	4,348	560	3,948	7	786	5	596
Montana	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-	(D)	(D)
Colorado	5	198	(D)	(D)	4	280	6	136	1	186	1	257
New Mexico	-	-	(D)	(D)	(D)	(D)	-	-	(D)	(D)	-	-
Arizona	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4	350	3	225
Utah	(D)	(D)	(D)	(D)	5	134	(D)	(D)	2	198	-	-
Nevada	-	-	(D)	(D)	(D)	(D)	-	-	-	-	-	-
Pacific	311	6,584	398	6,289	1,606	17,047	1,493	19,452	87	18,620	138	15,532
Washington	(D)	(D)	(D)	(D)	23	325	(D)	(D)	5	2,605	69	5,036
Oregon	(D)	(D)	(D)	(D)	36	244	(D)	(D)	3	889	1	605
California	306	6,112	369	5,933	1,547	16,476	1,387	18,165	78	15,126	68	9,891
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	(D)	(D)	-	-	-	-	-	-

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1]Less than 1,000 units.

[2]Data for the West South Central are included with the East South Central region.

TABLE 2D. Electron Tubes (Except X-Ray) (367010) and Solid State Semiconductors (367408) Consumed, by Divisions and States: 1963

Division and State	Electron tubes (except X-ray) (367010)		Solid state semiconductors (367408)	
	Quantity (1,000 units)	Value ($1,000)	Quantity (1,000 units)	Value ($1,000)
United States, total..	289,838	381,719	683,099	321,101
New England.....	34,511	13,563	71,647	42,615
New Hampshire.....	1,020	92	(D)	(D)
Vermont.....	(D)	(D)	(D)	(D)
Massachusetts.....	16,276	12,688	13,861	34,011
Rhode Island.....	(D)	(D)	(D)	(D)
Connecticut.....	159	603	1,140	3,346
Middle Atlantic.....	70,375	72,182	79,722	94,837
New York.....	39,205	38,667	48,245	73,322
New Jersey.....	18,932	26,238	28,043	12,474
Pennsylvania.....	12,238	7,277	3,434	9,041
East North Central.....	131,664	237,079	406,532	31,186
Ohio.....	6,486	4,039	391,021	5,737
Indiana.....	(D)	(D)	7,537	8,334
Illinois.....	82,023	144,145	7,290	13,888
Michigan.....	2,022	2,737	341	1,333
Wisconsin.....	(D)	(D)	343	1,894
West North Central.....	9,061	7,037	19,139	50,923
Minnesota.....	5,660	1,166	(D)	(D)
Iowa.....	(D)	(D)	(D)	(D)
Missouri.....	(D)	(D)	(D)	(D)
Nebraska.....	(D)	(D)	(D)	(D)
Kansas.....	-	-	(D)	(D)
South Atlantic.....	2,250	9,402	11,938	25,615
Maryland.....	(D)	(D)	(D)	(D)
District of Columbia....	-	-	(D)	(D)
Virginia.....	131	238	(D)	(D)
West Virginia.....	-	-	(D)	(D)
North Carolina.....	(D)	(D)	(D)	(D)
South Carolina.....	(D)	(D)	-	-
Georgia.....	(D)	(D)	(D)	(D)
Florida.....	257	1,415	1,471	7,990
East South Central.....	[1]11,878	[1]23,863	294	868
Kentucky.....	(D)	(D)	(D)	(D)
Tennessee.....	(D)	(D)	(D)	(D)
Mississippi.....	(D)	(D)	(D)	(D)
West South Central.....	([1])	([1])	2,246	6,897
Arkansas.....	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)
Oklahoma.....	126	234	(D)	(D)
Texas.....	2,275	6,515	2,080	6,039
Mountain.....	323	857	8,043	8,518
Idaho.....	(D)	(D)	(D)	(D)
Wyoming.....	(D)	(D)	-	-
Colorado.....	(D)	(D)	(D)	(D)
New Mexico.....	10	45	35	84
Arizona.....	(D)	(D)	7,786	6,793
Utah.....	(D)	(D)	(D)	(D)
Nevada.....	(D)	(D)	(D)	(D)
Pacific.....	29,776	17,736	83,538	59,642
Washington.....	(D)	(D)	(D)	(D)
Oregon.....	(D)	(D)	(D)	(D)
California.....	27,632	15,450	82,919	56,823

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1]Data for West South Central included with East South Central.

Selected Metalworking Operations

Chapter 9

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SELECTED METALWORKING OPERATIONS

The 1963 Census of Manufactures included a special inquiry on "Selected metalworking and related operations" to provide a measurement of employment in certain metalworking and related facilities in manufacturing. The following operations were included in this inquiry: Foundry (iron or steel); foundry (nonferrous, except die casting); die casting (nonferrous metal only); forging--presses, hammers, or upsetters; electroplating and other plating; galvanizing and other hot-dip coating; heat treating of metals for production purposes; automatic screw machine department; machine shop; tool and die shop, if separate from machine shop; pattern shop (foundry patterns only); plate or structural fabrication; stamping, blanking, and forming of metals; painting, lacquering, and enameling on metals; plastics molding; assembly of product; and shipping department (including packing and crating).

For the first fifteen such operations listed above, the number of establishments performing these operations and the number of production workers engaged in these operations, are shown by industry in table 1A and for selected operations by geographic division and State in table 2. The size distribution data in table 1A is based on the number of production workers usually employed in the operation. Data on the last two operations listed above and on man-hours worked by production workers in specified metalworking operations were collected for only a limited number of industries. Data for these activities are not summarized in this report but are available, by industry, in the 1963 Census of Manufactures, Volume II, Industry Statistics.

Information on selected metalworking operations was obtained for practically all industries where such operations are important. For individual industries or groups of industries, the inquiry on metalworking and related operations was tailored to fit the principal operations that were characteristic of those industries.

In many industries small establishments reported on a short form that did not include the inquiry on metalworking operations. Also, a few larger establishments that filed standard forms did not report their metalworking operations. This has resulted in an understatement of the number of establishments maintaining specific operations, primarily in the smallest size class, and to a much smaller degree an understatement of the total number of production workers in the operation.

An approximation of the coverage is given for each industry in table 1B. The coverage is highest in industries in which larger establishments predominate. Similar percentages are shown for geographic divisions and States.

For foundry operations, the number of plants operating foundries consists of the number reporting the operation for each industry plus the number of establishments classified in the foundries industries. For forgings operations, the number of plants operating forge shops consists of the number reporting the operation for each industry

plus the number of establishments classified in the forgings industries. In footnotes to table 1A, data are shown for the number of establishments classified in these industries. In the State table, separate columns have been included giving the number of establishments classified in these industries in each State. Similarly, the form used by respondents in industry 3471, Plating and Polishing,did not include the metalworking inquiry. Consequently, data for establishments in this industry were presented in the same manner as for the foundry industries.

A limited inquiry covering machine shops and pattern-shop operations was included for the foundry industries and an inquiry covering machine shops and tool and die shops was included for the forgings industries. Data for those activities are included in these tables.

TABLE 1A. Selected Metalworking Operations by Industry: 1963

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		FOUNDRY (IRON OR STEEL)[2]							
	Major groups 19 and 34 to 38, total....	568	133	121	314	40,985	250	1,225	39,510
19	Ordnance and accessories.....	3	-	3	-	(D)	-	(D)	-
1925	Complete guided missiles.....	1	-	1	-	(D)	-	(D)	-
1929	Ammunition, n.e.c.....	2	-	2	-	(D)	-	(D)	-
34	Fabricated metal products.....	147	30	33	84	9,542	53	315	9,174
342	Cutlery, hand tools, hardware.....	12	3	4	5	(D)	(D)	(D)	(D)
3421	Cutlery.....	1	-	-	1	(D)	-	-	(D)
3423	Hand and edge tools.....	3	1	2	-	17	(D)	(D)	-
3429	Hardware, n.e.c.....	8	2	2	4	202	(D)	(D)	180
343	Plumbing and heating, except electric.....	39	4	5	30	(D)	(D)	(D)	(D)
3431	Metal plumbing fixtures.....	12	-	-	12	1,690	-	-	1,690
3432	Plumbing fittings, brass goods.....	3	1	1	1	(D)	(D)	(D)	(D)
3433	Heating equipment, except electric.....	24	3	4	17	1,754	4	51	1,699
344	Structural metal products.....	36	14	12	10	(D)	25	123	(D)
3441	Fabricated structural steel.....	16	5	7	4	266	8	70	188
3442	Metal doors, sash, and trim.....	1	-	1	-	(D)	-	(D)	-
3443	Boiler shop products.....	6	1	1	4	299	(D)	(D)	(D)
3444	Sheet metal work.....	3	2	-	1	24	(D)	-	(D)
3446	Architectural metal work.....	6	2	3	1	60	(D)	(D)	(D)
3449	Miscellaneous metal work, n.e.c.....	4	4	-	-	8	8	-	-
345	Screw machine products, bolts, etc.....	3	2	1	-	(D)	(D)	(D)	-
3451	Screw machine products.....	1	1	-	-	(D)	(D)	-	-
3452	Bolts, nuts, rivets, and washers.....	2	1	1	-	(D)	(D)	(D)	-
349	Fabricated metal products, n.e.c.....	57	7	11	39	(D)	(D)	(D)	(D)
3493	Steel springs.....	4	-	1	3	(D)	-	(D)	(D)
3494	Valves and pipe fittings.....	42	4	6	32	4,728	4	53	4,671
3498	Fabricated pipe and fittings.....	1	1	-	-	(D)	(D)	-	-
3499	Fabricated metal products, n.e.c.....	10	2	4	4	204	(D)	(D)	177
35	Machinery, except electrical.....	321	59	75	187	21,299	110	765	20,424
351	Engines and turbines.....	11	-	1	10	(D)	-	(D)	834
3511	Steam engines and turbines.....	1	-	1	-	(D)	-	(D)	-
3519	Internal combustion engines.....	10	-	-	10	834	-	-	834
3522	Farm machinery and equipment.....	42	6	13	23	5,145	8	152	4,985
353	Construction and like equipment.....	48	8	11	29	(D)	21	106	(D)
3531	Construction machinery.....	16	1	3	12	2,987	(D)	(D)	2,954
3532	Mining machinery and equipment.....	13	2	1	10	749	(D)	(D)	730
3533	Oil field machinery.....	8	3	3	2	120	6	(D)	(D)
3534	Elevators and moving stairways.....	3	1	1	1	(D)	(D)	(D)	(D)
3535	Conveyors.....	4	-	1	3	284	-	(D)	(D)
3537	Industrial trucks and tractors.....	4	1	2	1	79	(D)	(D)	(D)
354	Metalworking machinery.....	28	4	3	21	(D)	(D)	(D)	(D)
3541	Metal-cutting machine tools.....	10	-	-	10	987	-	-	987
3542	Metal-forming machine tools.....	6	-	1	5	357	-	(D)	(D)
3544	Special dies and tools.....	3	2	1	-	10	(D)	(D)	-
3545	Machine tool accessories.....	4	2	-	2	(D)	(D)	-	(D)
3548	Metalworking machinery, n.e.c.....	5	-	1	4	958	-	(D)	(D)
355	Special industry machinery.....	83	11	24	48	3,671	29	(D)	(D)
3551	Food products machinery.....	11	2	4	5	323	(D)	(D)	281
3552	Textile machinery.....	18	2	2	14	1,079	(D)	(D)	1,049
3553	Woodworking machinery.....	13	4	6	3	310	10	54	246
3554	Paper industries machinery.....	11	1	3	7	733	(D)	(D)	697
3555	Printing trades machinery.....	6	-	2	4	145	-	(D)	(D)
3559	Special industry machines, n.e.c.....	24	2	7	15	1,081	(D)	(D)	1,000
356	General industrial machinery.....	52	8	10	34	(D)	14	129	(D)
3561	Pumps and compressors.....	30	1	6	23	1,877	(D)	(D)	1,801
3564	Blowers and fans.....	2	-	1	1	(D)	-	(D)	(D)
3565	Industrial patterns.....	5	5	-	-	8	8	-	-
3566	Power transmission equipment.....	10	-	2	8	1,330	-	(D)	(D)
3569	General industry machines, n.e.c.....	5	2	1	2	80	(D)	(D)	(D)
357	Office machines, n.e.c.....	5	1	-	4	(D)	(D)	-	(D)
3571	Computing and related machines.....	2	1	-	1	(D)	(D)	-	(D)
3576	Scales and balances.....	3	-	-	3	(D)	-	-	(D)
358	Service industry machines.....	8	3	1	4	(D)	(D)	(D)	(D)
3581	Automatic vending machines.....	1	-	-	1	(D)	-	-	(D)
3585	Refrigeration machinery.....	5	3	-	2	(D)	(D)	-	(D)
3589	Service industry machines, n.e.c.....	2	-	1	1	(D)	-	(D)	(D)
3599	Miscellaneous machinery.....	44	18	12	14	951	25	105	821
36	Electrical machinery.....	24	2	3	19	(D)	(D)	(D)	(D)
3621	Motors and generators.....	3	-	1	2	(D)	-	(D)	(D)

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963—Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		FOUNDRY (IRON OR STEEL)[2]—Continued							
36	Electrical machinery—Continued								
363	Household appliances	12	1	1	10	(D)	(D)	(D)	(D)
3631	Household cooking equipment	8	1	-	7	569	(D)	-	(D)
3633	Household laundry equipment	1	-	-	1	(D)	-	-	(D)
3636	Sewing machines	3	-	1	2	(D)	-	(D)	(D)
364	Lighting and wiring devices	7	-	1	6	717	-	(D)	(D)
3643	Current carrying devices	3	-	-	3	64	-	-	64
3644	Noncurrent carrying devices	4	-	1	3	653	-	(D)	(D)
3694	Engine electrical equipment	2	1	-	1	(D)	(D)	-	(D)
37	Transportation equipment	44	14	6	24	(D)	(D)	(D)	(D)
371	Motor vehicles and equipment	21	5	1	15	(D)	(D)	(D)	(D)
3713	Truck and bus bodies	1	1	-	-	(D)	(D)	-	-
3715	Truck trailers	1	-	-	1	(D)	-	-	(D)
3717	Motor vehicles and parts	19	4	1	14	6,943	(D)	(D)	6,930
372	Aircraft and parts	14	5	5	4	260	(D)	(D)	(D)
3722	Aircraft engines and parts	6	2	3	1	77	(D)	(D)	(D)
3729	Aircraft equipment, n.e.c	8	3	2	3	183	6	(D)	(D)
3731	Ship building and repairing	3	2	-	1	(D)	(D)	-	(D)
3742	Railroad and street cars	4	-	-	4	864	-	-	864
3791	Trailer coaches	2	2	-	-	(D)	(D)	-	-
38	Instruments and related products	29	28	1	-	74	(D)	(D)	-
3821	Mechanical measuring devices	29	28	1	-	74	(D)	(D)	-
		FOUNDRY (NONFERROUS, EXCEPT DIE CASTING)[2]							
	Major groups 19 and 34 to 38, total	614	261	197	156	11,275	507	2,027	8,741
19	Ordnance and accessories	4	2	2	-	(D)	(D)	(D)	-
1911 and 1999	Guns, howitzers and mortars, and ordnance and accessories, n.e.c	1	1	-	-	(D)	(D)	-	-
1925	Complete guided missiles	3	1	2	-	21	(D)	(D)	-
34	Fabricated metal products	230	72	78	80	5,744	127	756	4,861
342	Cutlery, hand tools, hardware	63	25	26	12	(D)	(D)	(D)	411
3421	Cutlery	1	1	-	-	(D)	(D)	-	-
3423	Hand and edge tools	9	7	2	-	29	(D)	(D)	-
3429	Hardware, n.e.c	53	17	24	12	666	43	212	411
343	Plumbing and heating, except electric	41	10	9	22	(D)	(D)	(D)	(D)
3431	Metal plumbing fixtures	1	-	-	1	(D)	-	-	(D)
3432	Plumbing fittings, brass goods	36	7	8	21	1,223	9	111	1,103
3433	Heating equipment, except electric	4	3	1	-	11	(D)	(D)	-
344	Structural metal products	29	13	13	3	(D)	29	115	(D)
3441	Fabricated structural steel	7	3	3	1	59	5	(D)	(D)
3442	Metal doors, sash, and trim	10	4	5	1	116	6	(D)	(D)
3443	Boiler shop products	2	1	1	-	(D)	(D)	(D)	-
3444	Sheet metal work	3	2	-	1	142	(D)	-	(D)
3446	Architectural metal work	6	2	4	-	41	(D)	(D)	-
3449	Miscellaneous metal work, n.e.c	1	1	-	-	(D)	(D)	-	-
345	Screw machine products, bolts, etc	3	3	-	-	(D)	(D)	-	-
3451	Screw machine products	1	1	-	-	(D)	(D)	-	-
3452	Bolts, nuts, rivets, and washers	2	2	-	-	(D)	(D)	-	-
349	Fabricated metal products, n.e.c	94	21	30	43	3,392	(D)	(D)	(D)
3494	Valves and pipe fittings	71	13	17	41	3,177	(D)	(D)	2,998
3498	Fabricated pipe and fittings	5	2	3	-	31	(D)	(D)	-
3499	Fabricated metal products, n.e.c	18	6	10	2	184	10	(D)	(D)
35	Machinery, except electrical	280	150	83	47	3,311	292	836	2,183
351	Engines and turbines	7	2	2	3	(D)	(D)	(D)	(D)
3511	Steam engines and turbines	2	-	1	1	(D)	-	(D)	(D)
3519	Internal combustion engines	5	2	1	2	121	(D)	(D)	(D)
3522	Farm machinery and equipment	23	10	11	2	293	24	(D)	(D)
353	Construction and like equipment	12	7	5	-	60	(D)	(D)	-
3531	Construction machinery	4	2	2	-	16	(D)	(D)	-
3532	Mining machinery and equipment	2	-	2	-	(D)	-	(D)	-
3534	Elevators and moving stairways	2	2	-	-	(D)	(D)	-	-
3535	Conveyors	3	2	1	-	12	(D)	(D)	-
3537	Industrial trucks and tractors	1	1	-	-	(D)	(D)	-	-

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963--Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		FOUNDRY (NONFERROUS, EXCEPT DIE CASTING)[2]—Continued							
35	Machinery, except electrical—Continued								
354	Metalworking machinery	41	34	2	5	(D)	68	(D)	(D)
3541	Metal-cutting machine tools	3	1	-	2	(D)	(D)	-	(D)
3542	Metal-forming machine tools	2	1	-	1	(D)	(D)	-	(D)
3544	Speical dies and tools	26	23	2	1	85	43	(D)	(D)
3545	Machine tool accessories	4	4	-	-	9	9	-	-
3548	Metalworking machinery, n.e.c	6	5	-	1	56	(D)	-	(D)
355	Special industry machinery	55	31	14	10	(D)	70	(D)	(D)
3551	Food products machinery	9	6	2	1	54	17	(D)	(D)
3552	Textile machinery	10	3	3	4	117	7	19	91
3553	Woodworking machinery	1	1	-	-	(D)	(D)	-	-
3554	Paper industries machinery	9	7	1	1	46	(D)	(D)	(D)
3555	Printing trades machinery	5	3	1	1	51	(D)	(D)	(D)
3559	Special industry machines, n.e.c	21	11	7	3	201	24	60	117
356	General industrial machinery	84	32	34	18	(D)	60	344	(D)
3561	Pumps and compressors	23	5	13	5	298	9	130	159
3562	Ball and roller bearings	2	-	1	1	(D)	-	(D)	(D)
3564	Blowers and fans	4	1	2	1	47	(D)	(D)	(D)
3565	Industrial patterns	37	24	12	1	175	45	(D)	(D)
3566	Power transmission equipment	14	1	4	9	467	(D)	(D)	408
3569	General industry machines, n.e.c	4	1	2	1	41	(D)	(D)	(D)
357	Office machines, n.e.c	5	1	3	1	103	(D)	(D)	(D)
3571	Computing and related machines	2	-	2	-	(D)	-	(D)	-
3572	Typewriters	1	1	-	-	(D)	(D)	-	-
3576	Scales and balances	1	-	-	1	(D)	-	-	(D)
3579	Office machines, n.e.c	1	-	1	-	(D)	-	(D)	-
358	Service industry machines	12	9	2	1	64	12	(D)	(D)
3585	Refrigeration machinery	7	4	2	1	57	5	(D)	(D)
3589	Service industry machines, n.e.c	5	5	-	-	7	7	-	-
3599	Miscellaneous machinery	41	24	10	7	670	37	104	529
36	Electrical machinery	53	22	18	13	859	42	193	624
3613	Switchgear and switchboards	2	-	-	2	(D)	-	-	(D)
3621	Motors and generators	13	8	3	2	94	14	(D)	(D)
363	Household appliances	6	2	2	2	(D)	(D)	(D)	(D)
3632	Household refrigerators	1	1	-	-	(D)	(D)	-	-
3633	Household laundry equipment	1	-	-	1	(D)	-	-	(D)
3634	Electric housewares and fans	4	1	2	1	84	(D)	(D)	(D)
364	Lighting and wiring devices	22	5	11	6	497	(D)	(D)	(D)
3642	Lighting fixtures	9	4	4	1	104	7	(D)	(D)
3643	Current carrying devices	3	1	1	1	65	(D)	(D)	(D)
3644	Noncurrent carrying devices	10	-	6	4	328	-	69	259
369	Electrical products, n.e.c	10	7	2	1	(D)	(D)	(D)	(D)
3691	Storage batteries	9	7	1	1	59	(D)	(D)	(D)
3692	Primary batteries, dry and wet	1	-	1	-	(D)	-	(D)	-
37	Transportation equipment	38	11	13	14	(D)	(D)	(D)	(D)
371	Motor vehicles and equipment	14	4	5	5	(D)	(D)	56	278
3713	Truck and bus bodies	1	1	-	-	(D)	(D)	-	-
3717	Motor vehicles and parts	13	3	5	5	339	5	56	278
372	Aircraft and parts	27	8	9	10	485	(D)	(D)	(D)
3721	Aircraft	11	3	5	3	165	9	42	114
3722	Aircraft engines and parts	6	1	3	2	114	(D)	(D)	(D)
3729	Aircraft equipment, n.e.c	10	4	1	5	206	(D)	(D)	182
373	Ship and boat building	8	1	4	3	(D)	(D)	(D)	207
3731	Ship building and repairing	6	-	3	3	229	-	22	207
3732	Boat building and repairing	2	1	1	-	(D)	(D)	(D)	-
3742	Railroad and street cars	1	-	-	1	(D)	-	-	80
3791	Trailer coaches	1	1	-	-	(D)	(D)	-	-
38	Instruments and related products	11	4	4	3	(D)	(D)	(D)	(D)
3811	Scientific instruments	1	1	-	-	(D)	(D)	-	-
382	Mechanical measuring devices	10	3	4	3	(D)	(D)	(D)	(D)
3821	Mechanical measuring devices	5	2	1	2	(D)	(D)	(D)	(D)
3822	Automatic temperature controls	5	1	3	1	80	(D)	(D)	(D)

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963—Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		DIE CASTING (NONFERROUS METAL ONLY)[2]							
	Major groups 19 and 34 to 38, total	420	192	135	93	7,821	372	1,399	6,050
19	Ordnance and accessories	5	3	1	1	125	(D)	(D)	(D)
1911 and 1999	Guns, howitzers, and mortars and ordnance and accessories, n.e.c.	2	1	1	-	(D)	(D)	(D)	-
1929	Ammunition, n.e.c.	1	-	-	1	(D)	-	-	(D)
1951	Small arms, 30 mm. and under	2	2	-	-	(D)	(D)	-	-
34	Fabricated metal products	110	55	30	25	2,515	95	(D)	(D)
3429	Hardware, n.e.c.	52	18	14	20	2,045	38	128	1,879
344	Structural metal products	16	11	4	1	(D)	19	(D)	(D)
3441	Fabricated structural steel	1	1	-	-	(D)	(D)	-	-
3442	Metal doors, sash, and trim	8	4	3	1	70	9	(D)	(D)
3444	Sheet metal work	1	1	-	-	(D)	(D)	-	-
3446	Architectural metal work	3	2	1	-	13	(D)	(D)	-
3449	Miscellaneous metal work, n.e.c.	3	3	-	-	3	3	-	-
345	Screw machine products, bolts, etc.	8	6	1	1	(D)	(D)	(D)	(D)
3451	Screw machine products	2	2	-	-	(D)	(D)	-	-
3452	Bolts, nuts, rivets, and washers	6	4	1	1	39	(D)	(D)	(D)
3461	Metal stampings	23	15	5	3	273	19	44	210
349	Fabricated metal products, n.e.c.	11	5	6	-	(D)	(D)	56	-
3498	Fabricated pipe and fittings	1	1	-	-	(D)	(D)	-	-
3499	Fabricated metal products, n.e.c.	10	4	6	-	64	8	56	-
35	Machinery, except electrical	94	53	24	17	(D)	97	260	(D)
3519	Internal combustion engines	5	1	1	3	638	(D)	(D)	(D)
354	Metalworking machinery	54	30	16	8	(D)	60	(D)	279
3541	Metal-cutting machine tools	3	2	1	-	10	(D)	(D)	-
3542	Metal-forming machine tools	1	-	1	-	(D)	-	(D)	-
3544	Special dies and tools	38	21	12	5	361	43	139	179
3545	Machine tool accessories	4	3	1	-	15	(D)	(D)	-
3548	Metalworking machinery, n.e.c.	8	4	1	3	112	(D)	(D)	100
3553	Woodworking machinery	3	1	1	1	72	(D)	(D)	(D)
3565	Industrial patterns	7	4	2	1	78	(D)	(D)	(D)
3581	Automatic vending machines	5	3	2	-	32	(D)	(D)	-
3599	Miscellaneous machinery	20	14	2	4	200	(D)	(D)	156
36	Electrical machinery	167	68	67	32	(D)	147	706	(D)
3611	Electric measuring instruments	7	3	2	2	93	9	(D)	(D)
3621	Motors and generators	60	27	29	4	614	79	315	220
363	Household appliances	23	8	5	10	(D)	(D)	(D)	(D)
3633	Household laundry equipment	5	2	1	2	69	(D)	(D)	(D)
3634	Electric housewares and fans	12	4	4	4	263	11	30	222
3635	Household vacuum cleaners	2	-	-	2	(D)	-	-	(D)
3636	Sewing machines	2	-	-	2	(D)	-	-	(D)
3639	Household appliances, n.e.c.	2	2	-	-	(D)	(D)	-	-
364	Lighting and wiring devices	35	12	17	6	(D)	(D)	(D)	(D)
3642	Lighting fixtures	15	2	10	3	350	(D)	(D)	(D)
3643	Current carrying devices	4	3	1	-	(D)	(D)	(D)	-
3644	Noncurrent carrying devices	16	7	6	3	169	11	46	112
3651	Radio and TV receiving sets	5	2	1	2	(D)	(D)	(D)	(D)
366	Communication equipment	7	3	1	3	(D)	(D)	(D)	(D)
3661	Telephone; telegraph apparatus	4	1	-	3	173	(D)	-	(D)
3662	Radio, TV communications equipment	3	2	1	-	(D)	(D)	(D)	-
3679	Electronic components, n.e.c.	8	2	4	2	121	(D)	53	(D)
369	Electrical products, n.e.c.	22	11	8	3	241	13	77	151
3691	Storage batteries	15	11	4	-	43	13	30	-
3694	Engine electrical equipment	7	-	4	3	198	-	47	151
37	Transportation equipment	27	9	6	12	(D)	(D)	61	823
3713	Truck and bus bodies	1	1	-	-	(D)	(D)	-	-
3717	Motor vehicles and parts	26	8	6	12	900	16	61	823
38	Instruments and related products	17	4	7	6	295	(D)	(D)	216
3821	Mechanical measuring devices	10	3	4	3	150	6	36	108
3822	Automatic temperature controls	7	1	3	3	145	(D)	(D)	108

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963—Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		FORGING (PRESSES, HAMMERS, OR UPSETTERS)[3]							
	Major groups 19 and 34 to 37	812	404	252	156	14,749	746	2,664	11,339
19	Ordnance and accessories	17	7	6	4	(D)	15	(D)	144
1911 and 1999	Guns, howitzers, and mortars and ordnance and accessories, n.e.c.	3	2	-	1	(D)	(D)	-	20
192	Missiles and ammunition, n.e.c.	10	2	5	3	(D)	(D)	(D)	124
1925	Complete guided missiles	4	2	2	-	(D)	(D)	(D)	-
1929	Ammunition, n.e.c.	6	-	3	3	171	-	47	124
1951	Small arms, 30 mm. and under	4	3	1	-	10	(D)	(D)	-
34	Fabricated metal products	342	175	113	54	(D)	312	(D)	(D)
342	Cutlery, hand tools, hardware	145	69	48	28	(D)	(D)	460	(D)
3421	Cutlery	19	15	4	-	67	27	40	-
3423	Hand and edge tools	99	38	38	23	1,285	96	367	822
3425	Hand saws and saw blades	3	2	-	1	(D)	(D)	-	(D)
3429	Hardware, n.e.c.	24	14	6	4	203	22	53	128
343	Plumbing and heating, except electric	4	2	2	-	(D)	(D)	(D)	-
3431	Metal plumbing fixtures	1	1	-	-	(D)	(D)	-	-
3432	Plumbing fittings, brass goods	3	1	2	-	15	(D)	(D)	-
344	Structural metal products	86	54	25	7	617	(D)	228	(D)
3441	Fabricated structural steel	27	17	8	2	176	23	(D)	(D)
3442	Metal doors, sash, and trim	11	5	6	-	73	7	66	-
3443	Boiler shop products	13	4	7	2	198	12	(D)	(D)
3444	Sheet metal work	12	10	1	1	82	(D)	(D)	(D)
3446	Architectural metal work	17	14	1	2	70	15	(D)	(D)
3449	Miscellaneous metal work, n.e.c.	6	4	2	-	18	(D)	(D)	-
345	Screw machine products, bolts, n.e.c.	21	11	10	-	118	23	95	-
3451	Screw machine products	6	6	-	-	10	10	-	-
3452	Bolts, nuts, rivets, and washers	15	5	10	-	108	13	95	-
3461	Metal stampings	20	9	4	7	484	13	32	439
349	Fabricated metal products, n.e.c.	66	30	24	12	1,219	(D)	(D)	(D)
3493	Steel springs	17	6	7	4	276	11	64	201
3494	Valves and pipe fittings	28	10	12	6	818	11	142	665
3498	Fabricated pipe and fittings	6	3	1	2	70	(D)	(D)	(D)
3499	Fabricated metal products, n.e.c.	15	11	4	-	55	18	37	-
35	Machinery, except electrical	301	172	85	44	3,280	309	792	2,179
351	Engines and turbines	4	1	-	3	(D)	(D)	-	150
3511	Steam engines and turbines	3	-	-	3	150	-	-	150
3519	Internal combustion engines	1	1	-	-	(D)	(D)	-	-
3522	Farm machinery and equipment	80	37	24	19	1,391	73	239	1,079
353	Construction and like equipment	88	51	27	10	(D)	(D)	233	(D)
3531	Construction machinery	32	19	10	3	319	30	95	194
3532	Mining machinery and equipment	22	16	5	1	81	27	(D)	(D)
3533	Oil field machinery	22	8	8	6	298	22	61	215
3535	Conveyors	5	4	1	-	16	(D)	(D)	-
3536	Hoists, cranes, and monorails	2	-	2	-	(D)	-	(D)	-
3537	Industrial trucks and tractors	5	4	1	-	24	(D)	(D)	-
354	Metalworking machinery	53	34	14	5	398	(D)	132	(D)
3541	Metal-cutting machine tools	4	4	-	-	7	7	-	-
3542	Metal-forming machine tools	7	5	2	-	27	(D)	(D)	-
3544	Speical dies and tools	13	8	4	1	146	11	(D)	(D)
3545	Machine tool accessories	17	10	5	2	109	16	(D)	(D)
3548	Metalworking machinery, n.e.c.	12	7	3	2	109	14	(D)	(D)
355	Special industry machinery	10	7	2	1	120	14	(D)	(D)
3553	Woodworking machinery	3	3	-	-	5	5	-	-
3559	Special industry machines, n.e.c.	7	4	2	1	115	9	(D)	(D)
356	General industrial machinery	22	9	9	4	270	(D)	(D)	(D)
3562	Ball and roller bearings	13	4	7	2	183	8	(D)	(D)
3566	Power transmission equipment	5	2	2	1	50	(D)	(D)	(D)
3569	General industry machines, n.e.c.	4	3	-	1	37	(D)	-	(D)
357	Office machines, n.e.c.	3	2	1	-	(D)	(D)	(D)	-
3571	Computing and related machines	1	-	1	-	(D)	-	(D)	-
3576	Scales and balances	1	1	-	-	(D)	(D)	-	-
3579	Office machines, n.e.c.	1	1	-	-	(D)	(D)	-	-
3589	Service industry machines, n.e.c.	2	2	-	-	(D)	(D)	-	-
3599	Miscellaneous machinery	39	29	8	2	179	42	(D)	(D)

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963--Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		FORGING (PRESSES, HAMMERS, OR UPSETTERS)[3]—Continued							
36	Electrical machinery	35	5	17	13	(D)	11	178	(D)
3621	Motors and generators	7	2	4	1	54	(D)	(D)	(D)
363	Household appliances	8	2	1	5	522	(D)	(D)	(D)
3631	Household cooking equipment	2	-	-	2	(D)	-	-	(D)
3633	Household laundry equipment	1	-	1	-	(D)	-	(D)	-
3634	Electric housewares and fans	2	1	-	1	31	(D)	-	(D)
3636	Sewing machines	2	-	-	2	(D)	-	-	(D)
3639	Household appliances, n.e.c	1	1	-	-	(D)	(D)	-	-
364	Lighting and wiring devices	20	1	12	7	(D)	(D)	(D)	(D)
3643	Current carrying devices	5	1	2	2	(D)	(D)	(D)	(D)
3644	Noncurrent carrying devices	15	-	10	5	653	-	124	529
37	Transportation equipment	137	46	43	48	(D)	99	449	(D)
371	Motor vehicles and equipment	56	14	17	25	(D)	(D)	(D)	3,262
3713	Truck and bus bodies	8	6	2	-	24	(D)	(D)	-
3715	Truck trailers	1	-	1	-	(D)	-	(D)	-
3717	Motor vehicles and parts	47	8	14	25	3,433	12	159	3,262
372	Aircraft and parts	30	9	8	13	1,426	(D)	(D)	(D)
3721	Aircraft	6	-	1	5	559	-	(D)	(D)
3722	Aircraft engines and parts	14	4	4	6	741	13	37	691
3729	Aircraft equipment, n.e.c	10	5	3	2	126	(D)	(D)	(D)
373	Ship and boat building	28	21	5	2	136	(D)	(D)	(D)
3731	Ship building and repairing	24	18	4	2	124	36	(D)	(D)
3732	Boat building and repairing	4	3	1	-	12	(D)	(D)	-
3742	Railroad and street cars	23	2	13	8	596	(D)	(D)	434
		ELECTROPLATING AND OTHER PLATING[4]							
	Major groups 19 and 34 to 38, total	2,068	1,092	659	317	24,456	2,060	6,229	16,167
19	Ordnance and accessories	45	16	21	8	(D)	(D)	219	(D)
1911 and 1999	Guns, howitzers, and mortars and ordnance and accessories, n.e.c	9	4	5	-	38	6	32	-
192	Missiles and ammunition, n.e.c	26	8	11	7	407	19	(D)	(D)
1925	Complete guided missiles	17	5	7	5	273	12	86	175
1929	Ammunition, n.e.c	9	3	4	2	134	7	(D)	(D)
1931	Tanks and tank components	2	-	2	-	(D)	-	(D)	-
1951	Small arms, 30 mm. and under	5	2	2	1	62	(D)	(D)	(D)
1961	Small arms ammunition	3	2	1	-	13	(D)	(D)	-
34	Fabricated metal products	616	315	205	96	8,007	585	(D)	(D)
342	Cutlery, hand tools, hardware	231	110	77	44	4,294	(D)	692	(D)
3421	Cutlery	17	8	7	2	152	16	(D)	(D)
3423	Hand and edge tools	59	32	26	1	295	54	(D)	(D)
3425	Hand saws and saw blades	5	3	2	-	18	(D)	(D)	-
3429	Hardware, n.e.c	150	67	42	41	3,829	158	384	3,287
343	Plumbing and heating, except electric	58	19	25	14	(D)	31	(D)	(D)
3431	Metal plumbing fixtures	3	-	1	2	(D)	-	(D)	(D)
3432	Plumbing fittings, brass goods	45	14	19	12	799	26	210	563
3433	Heating equipment, except electric	10	5	5	-	37	5	32	-
344	Structural metal products	51	32	15	4	(D)	68	131	207
3441	Fabricated structural steel	4	3	1	-	9	(D)	(D)	-
3442	Metal doors, sash, and trim	26	11	11	4	343	34	102	207
3443	Boiler shop products	2	2	-	-	(D)	(D)	-	-
3444	Sheet metal work	11	11	-	-	18	18	-	-
3446	Architectural metal work	6	4	2	-	22	(D)	(D)	-
3449	Miscellaneous metal work, n.e.c	2	1	1	-	(D)	(D)	(D)	-
345	Screw machine products, bolts, etc	89	53	24	12	722	96	220	406
3451	Screw machine products	20	17	3	-	52	22	30	-
3452	Bolts, nuts, rivets, and washers	69	36	21	12	670	74	190	406
3461	Metal stampings	107	52	41	14	1,057	88	333	636
349	Fabricated metal products, n.e.c	80	49	23	8	(D)	(D)	209	(D)
3492	Safes and vaults	2	-	1	1	(D)	-	(D)	(D)
3493	Steel springs	1	1	-	-	(D)	(D)	-	-
3494	Valves and pipe fittings	36	23	9	4	349	34	82	233
3498	Fabricated pipe and fittings	10	7	2	1	48	(D)	(D)	(D)
3499	Fabricated metal products, n.e.c	31	18	11	2	182	24	(D)	(D)

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963--Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		ELECTROPLATING AND OTHER PLATING[4]—Continued							
35	Machinery, except electrical	329	214	81	34	2,600	378	763	1,459
351	Engines and turbines	16	6	7	3	(D)	(D)	66	94
3511	Steam engines and turbines	1	1	-	-	(D)	(D)	-	-
3519	Internal combustion engines	15	5	7	3	172	12	66	94
354	Metalworking machinery	81	64	15	2	298	102	(D)	(D)
3541	Metal-cutting machine tools	14	10	4	-	63	17	46	-
3542	Metal-forming machine tools	3	3	-	-	6	6	-	-
3544	Special dies and tools	23	19	3	1	81	27	(D)	(D)
3545	Machine tool accessories	31	25	5	1	114	40	(D)	(D)
3548	Metalworking machinery, n.e.c	10	7	3	-	34	12	22	-
355	Special industry machinery	22	14	7	1	145	(D)	(D)	(D)
3553	Woodworking machinery	5	1	3	1	89	(D)	(D)	(D)
3559	Special industry machines, n.e.c	17	13	4	-	56	18	38	-
356	General industrial machinery	45	36	7	2	(D)	64	(D)	(D)
3562	Ball and roller bearings	13	8	5	-	51	15	36	-
3564	Blowers and fans	2	2	-	-	(D)	(D)	-	-
3565	Industrial patterns	2	2	-	-	(D)	(D)	-	-
3566	Power transmission equipment	19	16	1	2	93	26	(D)	(D)
3569	General industry machines, n.e.c	9	8	1	-	33	(D)	(D)	-
357	Office machines, n.e.c	58	19	20	19	(D)	(D)	(D)	(D)
3571	Computing and related machines	31	9	11	11	809	15	100	694
3572	Typewriters	9	1	3	5	246	(D)	(D)	208
3576	Scales and balances	2	1	-	1	(D)	(D)	-	(D)
3579	Office machines, n.e.c	16	8	6	2	156	18	(D)	(D)
358	Service industry machines	31	22	7	2	151	44	(D)	(D)
3581	Automatic vending machines	7	1	4	2	86	(D)	(D)	(D)
3582	Commercial laundry equipment	4	4	-	-	7	7	-	-
3585	Refrigeration machinery	13	11	2	-	35	(D)	(D)	-
3589	Service industry machines, n.e.c	7	6	1	-	23	(D)	(D)	-
3599	Miscellaneous machinery	76	53	18	5	412	94	148	170
36	Electrical machinery	719	378	235	106	(D)	718	2,355	(D)
361	Electric distribution products	108	76	22	10	665	138	217	310
3611	Electric measuring instruments	38	27	7	4	227	47	64	116
3613	Switchgear and switchboards	70	49	15	6	438	91	153	194
362	Electric industrial apparatus	54	29	22	3	(D)	(D)	(D)	(D)
3621	Motors and generators	39	20	17	2	238	(D)	159	(D)
3622	Industrial controls	14	9	4	1	111	20	(D)	(D)
363	Household appliances	64	15	25	24	(D)	(D)	304	876
3631	Household cooking equipment	7	1	4	2	140	(D)	48	(D)
3632	Household refrigerators	4	-	1	3	134	-	(D)	(D)
3633	Household laundry equipment	7	4	1	2	75	8	(D)	(D)
3634	Electric housewares and fans	36	8	16	12	681	18	189	474
3635	Household vacuum cleaners	4	-	2	2	81	-	(D)	(D)
3636	Sewing machines	4	1	1	2	63	(D)	(D)	(D)
3639	Household appliances, n.e.c	2	1	-	1	(D)	(D)	-	(D)
364	Lighting and wiring devices	139	71	45	23	1,470	125	432	913
3642	Lighting fixtures	74	42	22	10	669	76	224	369
3643	Current carrying devices	44	22	16	6	349	34	136	179
3644	Noncurrent carrying devices	21	7	7	7	452	15	72	365
3651	Radio and TV receiving sets	16	5	8	3	233	9	92	132
366	Communication equipment	123	61	37	25	1,485	118	331	1,036
3661	Telephone; telegraph apparatus	24	7	7	10	589	24	58	507
3662	Radio, TV communications equipment	99	54	30	15	896	94	273	529
367	Electronic components	197	110	70	17	(D)	(D)	(D)	595
3671	Electron tubes, receiving types	4	2	2	-	32	(D)	(D)	-
3672	Cathode ray picture tubes	1	-	1	-	(D)	-	(D)	-
3673	Electron tubes, transmitting	21	9	9	3	177	15	85	77
3674	Semiconductors	33	20	10	3	286	39	101	146
3679	Electronic components, n.e.c	138	79	48	11	1,028	156	500	372
3694	Engine electrical equipment	19	11	7	1	136	24	(D)	(D)
37	Transportation equipment	238	104	75	59	(D)	(D)	(D)	4,324
371	Motor vehicles and equipment	98	44	24	30	(D)	(D)	(D)	2,985
3713	Truck and bus bodies	1	1	-	-	(D)	(D)	-	-
3715	Truck trailers	2	1	1	-	(D)	(D)	(D)	-
3717	Motor vehicles and parts	95	42	23	30	3,291	93	213	2,985

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963—Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		ELECTROPLATING AND OTHER PLATING[4]—Continued							
37	Transportation equipment—Continued								
372	Aircraft and parts	128	58	46	24	1,640	126	418	1,096
3721	Aircraft	27	10	10	7	494	29	101	364
3722	Aircraft engines and parts	36	14	13	9	640	28	106	506
3729	Aircraft equipment, n.e.c.	65	34	23	8	506	69	211	226
3751	Motorcycles, bicycles, and parts	11	1	5	5	279	(D)	(D)	243
3799	Transportation equipment, n.e.c.	1	1	-	-	(D)	(D)	-	-
38	Instruments and related products	121	65	42	14	997	114	(D)	(D)
3811	Scientific instruments	24	18	6	-	72	30	42	-
382	Mechanical measuring devices	57	26	24	7	531	48	226	257
3821	Mechanical measuring devices	35	19	12	4	285	33	106	146
3822	Automatic temperature controls	22	7	12	3	246	15	120	111
387	Watches, clocks, and watchcases	40	21	12	7	394	36	(D)	(D)
3871	Watches and clocks	24	9	9	6	312	17	88	207
3872	Watchcases	16	12	3	1	82	19	(D)	(D)
		GALVANIZING AND OTHER HOT DIP COATING[5]							
	Major groups 19 and 34 to 37, total	436	273	110	53	3,622	515	1,059	2,048
19	Ordnance and accessories	11	5	4	2	216	(D)	(D)	(D)
1911 and 1999	Guns, howitzers, and mortars and ordnance and accessories, n.e.c.	2	1	1	-	(D)	(D)	(D)	-
1925	Complete guided missiles	6	3	1	2	176	6	(D)	(D)
1931	Tanks and tank components	1	-	1	-	(D)	-	(D)	-
1951	Small arms, 30 mm. and under	2	1	1	-	(D)	(D)	(D)	-
34	Fabricated metal products	193	115	57	21	(D)	223	547	(D)
3429	Hardware, n.e.c.	13	11	-	2	76	(D)	-	(D)
343	Plumbing and heating, except electric	7	4	2	1	(D)	(D)	(D)	(D)
3431	Metal plumbing fixtures	1	1	-	-	(D)	(D)	-	-
3432	Plumbing fittings, brass goods	2	2	-	-	(D)	(D)	-	-
3433	Heating equipment, except electric	4	1	2	1	46	(D)	(D)	(D)
344	Structural metal products	42	24	11	7	(D)	44	(D)	(D)
3441	Fabricated structural steel	7	1	2	4	162	(D)	(D)	137
3442	Metal doors, sash, and trim	4	2	-	2	54	(D)	-	(D)
3443	Boiler shop products	8	6	1	1	67	(D)	(D)	(D)
3444	Sheet metal work	21	13	8	-	106	20	86	-
3446	Architectural metal work	1	1	-	-	(D)	(D)	-	-
3449	Miscellaneous metal work, n.e.c.	1	1	-	-	(D)	(D)	-	-
345	Screw machine products, bolts, etc.	22	14	8	-	95	22	73	-
3451	Screw machine products	3	3	-	-	4	4	-	-
3452	Bolts, nuts, rivets, and washers	19	11	8	-	91	18	73	-
3461	Metal stampings	28	13	10	5	287	21	93	173
3481	Fabricated wire products, n.e.c.	40	26	12	2	219	60	(D)	(D)
349	Fabricated metal products, n.e.c.	41	23	14	4	383	(D)	(D)	189
3491	Metal barrels, drums, and pails	6	-	6	-	56	-	56	-
3494	Valves and pipe fittings	21	11	6	4	285	24	72	189
3498	Fabricated pipe and fittings	6	6	-	-	19	19	-	-
3499	Fabricated metal products, n.e.c.	8	6	2	-	23	(D)	(D)	-
35	Machinery, except electrical	36	26	10	-	148	49	99	-
3559	Special industry machines, n.e.c.	5	4	1	-	12	(D)	(D)	-
356	General industrial machinery	19	13	6	-	(D)	(D)	(D)	-
3561	Pumps and compressors	12	9	3	-	59	20	39	-
3564	Blowers and fans	2	1	1	-	(D)	(D)	(D)	-
3569	General industry machines, n.e.c.	5	3	2	-	15	(D)	(D)	-
3571	Computing and related machines	2	1	1	-	(D)	(D)	(D)	-
358	Service industry machines	10	8	2	-	(D)	(D)	(D)	-
3582	Commercial laundry equipment	1	1	-	-	(D)	(D)	-	-
3585	Refrigeration machinery	7	6	1	-	18	(D)	(D)	-
3586	Measuring and dispensing pumps	2	1	1	-	(D)	(D)	(D)	-
36	Electrical machinery	137	93	23	21	1,283	155	229	899
3621	Motors and generators	10	7	3	-	32	10	22	-
363	Household appliances	9	3	5	1	(D)	9	(D)	(D)
3633	Household laundry equipment	1	-	1	-	(D)	-	(D)	-
3634	Electric housewares and fans	2	-	1	1	42	-	(D)	(D)
3639	Household appliances, n.e.c.	6	3	3	-	34	9	25	-

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963—Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		GALVANIZING AND OTHER HOT DIP COATING[5]—Continued							
36	Electrical machinery—Continued								
364	Lighting and wiring devices	42	20	9	13	651	(D)	(D)	(D)
3642	Lighting fixtures	7	7	-	-	14	14	-	-
3643	Current carrying devices	9	7	1	1	45	(D)	(D)	(D)
3644	Noncurrent carrying devices	26	6	8	12	592	15	115	462
3651	Radio and TV receiving sets	4	3	-	1	(D)	(D)	-	(D)
366	Communication equipment	21	15	4	2	(D)	(D)	(D)	(D)
3661	Telephone; telegraph apparatus	5	4	1	-	15	10	5	-
3662	Radio, TV communications equipment	16	11	3	2	(D)	(D)	(D)	(D)
367	Electronic components	45	40	2	3	(D)	(D)	(D)	(D)
3673	Electron tubes, transmitting	1	1	-	-	(D)	(D)	-	-
3674	Semiconductors	5	4	1	-	(D)	(D)	(D)	-
3679	Electronic components, n.e.c	39	35	1	3	278	52	(D)	(D)
3694	Engine electrical equipment	6	5	-	1	30	(D)	-	(D)
37	Transportation equipment	59	34	16	9	(D)	(D)	(D)	(D)
371	Motor vehicles and equipment	36	24	9	3	(D)	(D)	(D)	(D)
3715	Truck trailers	1	1	-	-	(D)	(D)	-	-
3717	Motor vehicles and parts	35	23	9	3	203	51	79	73
372	Aircraft and parts	23	10	7	6	264	(D)	52	(D)
3721	Aircraft	7	1	3	3	139	(D)	(D)	105
3722	Aircraft engines and parts	8	3	3	2	83	7	(D)	(D)
3729	Aircraft equipment, n.e.c	8	6	1	1	42	(D)	(D)	(D)
		HEAT TREATING OF METALS FOR PRODUCTION PURPOSES							
	Major groups 19 and 34 to 38, total	3,499	2,412	795	292	25,440	3,994	7,160	14,286
19	Ordnance and accessories	56	20	29	7	576	(D)	290	(D)
1911 and 1999	Guns, howitzers, and mortars and ordnance and accessories, n.e.c	11	6	4	1	59	12	(D)	(D)
192	Missiles and ammunition, n.e.c	24	6	14	4	297	(D)	(D)	(D)
1925	Complete guided missiles	12	4	5	3	146	7	50	89
1929	Ammunition, n.e.c	12	2	9	1	151	(D)	(D)	(D)
1931	Tanks and tank components	5	2	3	-	48	(D)	(D)	-
1951	Small arms, 30 mm. and under	12	5	6	1	118	12	(D)	(D)
1961	Small arms ammunition	4	1	2	1	54	(D)	(D)	(D)
34	Fabricated metal products	1,000	746	208	46	(D)	1,220	(D)	(D)
342	Cutlery, hand tools, hardware	281	219	51	11	1,222	360	(D)	(D)
3421	Cutlery	50	42	5	3	201	59	47	95
3423	Hand and edge tools	155	119	31	5	641	199	288	154
3425	Hand saws and saw blades	24	14	9	1	157	28	(D)	(D)
3429	Hardware, n.e.c	52	44	6	2	223	74	(D)	(D)
343	Plumbing and heating, except electric	22	16	6	-	(D)	(D)	(D)	-
3431	Metal plumbing fixtures	2	2	-	-	(D)	(D)	-	-
3432	Plumbing fittings, brass goods	12	10	2	-	33	(D)	(D)	-
3433	Heating equipment, except electric	8	4	4	-	52	7	45	-
344	Structural metal products	134	103	27	4	484	(D)	(D)	99
3441	Fabricated structural steel	16	12	4	-	55	19	36	-
3442	Metal doors, sash, and trim	19	14	5	-	71	26	45	-
3443	Boiler shop products	70	52	14	4	294	94	101	99
3444	Sheet metal work	17	17	-	-	30	30	-	-
3446	Architectural metal work	5	4	1	-	9	(D)	(D)	-
3449	Miscellaneous metal work, n.e.c	7	4	3	-	25	5	20	-
345	Screw machine products, bolts, etc	157	107	39	11	893	186	366	341
3451	Screw machine products	44	38	6	-	115	53	62	-
3452	Bolts, nuts, rivets, and washers	113	69	33	11	778	133	304	341
3461	Metal stampings	118	92	22	4	498	130	199	169
3481	Fabricated wire products, n.e.c	115	85	28	2	450	125	(D)	(D)
349	Fabricated metal products, n.e.c	173	124	35	14	(D)	(D)	311	648
3492	Safes and vaults	2	2	-	-	(D)	(D)	-	-
3493	Steel springs	44	24	12	8	575	41	120	414
3494	Valves and pipe fittings	68	52	13	3	369	86	121	162
3498	Fabricated pipe and fittings	21	18	3	-	52	34	18	-
3499	Fabricated metal products, n.e.c	38	28	7	3	175	51	52	72

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963--Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		HEAT TREATING OF METALS FOR PRODUCTION PURPOSES—Continued							
35	Machinery, except electrical	1,493	1,062	318	113	(D)	1,680	2,910	(D)
351	Engines and turbines	39	12	17	10	535	24	181	330
3511	Steam engines and turbines	11	3	5	3	127	7	49	71
3519	Internal combustion engines	28	9	12	7	408	17	132	259
3522	Farm machinery and equipment	135	95	25	15	1,098	162	250	686
353	Construction and like equipment	214	155	43	16	(D)	278	395	(D)
3531	Construction machinery	83	59	13	11	1,050	110	131	809
3532	Mining machinery and equipment	36	27	7	2	156	47	(D)	(D)
3533	Oil field machinery	60	43	15	2	337	76	(D)	(D)
3534	Elevators and moving stairways	2	1	1	-	(D)	(D)	(D)	-
3535	Conveyors	12	10	2	-	28	(D)	(D)	-
3536	Hoists, cranes, and monorails	8	6	2	-	27	(D)	(D)	-
3537	Industrial trucks and tractors	13	9	3	1	70	15	(D)	(D)
354	Metalworking machinery	448	336	84	28	2,250	477	(D)	(D)
3541	Metal-cutting machine tools	68	41	20	7	417	72	154	191
3542	Metal-forming machine tools	30	23	6	1	196	38	(D)	(D)
3544	Special dies and tools	163	150	10	3	370	164	76	130
3545	Machine tool accessories	144	92	39	13	917	154	325	438
3548	Metalworking machinery, n.e.c	43	30	9	4	350	49	81	220
355	Special industry machinery	210	162	43	5	(D)	(D)	(D)	(D)
3551	Food products machinery	34	29	5	-	100	52	48	-
3552	Textile machinery	66	44	18	4	354	62	156	136
3553	Woodworking machinery	20	17	3	-	74	38	36	-
3554	Paper industries machinery	1	1	-	-	(D)	(D)	-	-
3555	Printing trades machinery	27	20	7	-	84	30	54	-
3559	Special industry machines, n.e.c	62	51	10	1	177	83	(D)	(D)
356	General industrial machinery	227	136	63	28	(D)	235	649	(D)
3561	Pumps and compressors	56	42	13	1	210	72	(D)	(D)
3562	Ball and roller bearings	68	26	22	20	1,722	42	234	1,446
3564	Blowers and fans	4	2	2	-	(D)	(D)	(D)	-
3565	Industrial patterns	2	2	-	-	(D)	(D)	-	-
3566	Power transmission equipment	68	37	24	7	668	73	269	326
3569	General industry machines, n.e.c	29	27	2	-	62	(D)	(D)	-
357	Office machines, n.e.c	50	26	17	7	617	(D)	(D)	410
3571	Computing and related machines	24	13	7	4	388	23	63	302
3572	Typewriters	9	2	4	3	162	(D)	(D)	108
3576	Scales and balances	6	4	2	-	24	(D)	(D)	-
3579	Office machines, n.e.c	11	7	4	-	43	8	35	-
358	Service industry machines	37	30	7	-	98	49	49	-
3581	Automatic vending machines	5	4	1	-	20	(D)	(D)	-
3582	Commercial laundry equipment	4	3	1	-	11	(D)	(D)	-
3585	Refrigeration machinery	13	11	2	-	30	(D)	(D)	-
3586	Measuring and dispensing pumps	7	5	2	-	20	(D)	(D)	-
3589	Service industry machines, n.e.c	8	7	1	-	17	(D)	(D)	-
3599	Miscellaneous machinery	133	110	19	4	424	150	161	113
36	Electrical machinery	445	313	107	25	2,377	569	943	865
361	Electric distribution products	78	55	20	3	360	105	(D)	(D)
3611	Electric measuring instruments	24	19	5	-	78	28	50	-
3612	Transformers	27	15	10	2	187	39	(D)	(D)
3613	Switchgear and switchboards	27	21	5	1	95	38	(D)	(D)
362	Electric industrial apparatus	68	42	23	3	416	(D)	(D)	(D)
3621	Motors and generators	58	36	20	2	348	(D)	185	(D)
3622	Industrial controls	10	6	3	1	68	11	(D)	(D)
363	Household appliances	39	25	10	4	(D)	(D)	102	(D)
3631	Household cooking equipment	2	1	1	-	(D)	(D)	(D)	-
3632	Household refrigerators	3	-	1	2	69	-	(D)	(D)
3633	Household laundry equipment	6	5	1	-	20	(D)	(D)	-
3634	Electric housewares and fans	14	9	5	-	73	20	53	-
3635	Household vacuum cleaners	3	3	-	-	9	9	-	-
3636	Sewing machines	7	3	2	2	80	8	(D)	(D)
3639	Household appliances, n.e.c	4	4	-	-	7	7	-	-
364	Lighting and wiring devices	55	48	6	4	147	(D)	(D)	(D)
3642	Lighting fixtures	15	14	1	-	27	(D)	(D)	-
3643	Current carrying devices	27	24	3	-	61	28	33	-
3644	Noncurrent carrying devices	13	10	2	1	59	18	(D)	(D)
3651	Radio and TV receiving sets	4	4	-	-	9	9	-	-

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963—Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		HEAT TREATING OF METALS FOR PRODUCTION PURPOSES—Continued							
366	Electrical machinery—Continued								
366	Communication equipment	77	54	18	5	390	95	(D)	(D)
3661	Telephone; telegraph apparatus	23	11	9	3	193	27	86	80
3662	Radio, TV communications equipment	54	43	9	2	197	68	(D)	(D)
367	Electronic components	107	77	23	7	(D)	(D)	(D)	(D)
3671	Electron tubes, receiving type	6	1	2	3	181	(D)	(D)	165
3672	Cathode ray picture tubes	1	-	-	1	(D)	-	-	(D)
3673	Electron tubes, transmitting	17	14	3	-	59	28	31	-
3674	Semiconductors	13	8	5	-	62	14	48	-
3679	Electronic components, n.e.c	70	54	13	3	270	75	101	94
369	Electrical products, n.e.c	17	8	7	2	(D)	(D)	(D)	(D)
3691	Storage batteries	2	2	-	-	(D)	(D)	-	-
3692	Primary batteries, dry and wet	1	-	1	-	(D)	-	(D)	-
3694	Engine electrical equipment	14	6	6	2	143	(D)	58	(D)
37	Transportation equipment	407	195	115	97	(D)	(D)	(D)	(D)
371	Motor vehicles and equipment	174	68	52	54	(D)	(D)	486	(D)
3715	Truck trailers	3	2	-	1	(D)	(D)	-	(D)
3717	Motor vehicles and parts	171	66	52	53	3,915	140	486	3,289
372	Aircraft and parts	205	108	56	41	2,117	202	482	1,433
3721	Aircraft	34	13	8	13	517	31	65	421
3722	Aircraft engines and parts	73	39	18	16	1,012	76	155	781
3729	Aircraft equipment, n.e.c	98	56	30	12	588	95	262	231
373	Ship and boat building	28	19	7	2	883	(D)	(D)	(D)
3731	Ship building and repairing	24	15	7	2	877	(D)	(D)	(D)
3732	Boat building and repairing	4	4	-	-	6	6	-	-
38	Instruments and related products	97	75	18	4	517	(D)	(D)	(D)
3811	Scientific instruments	16	14	1	1	132	(D)	(D)	(D)
382	Mechanical measuring devices	56	42	12	2	231	61	(D)	(D)
3821	Mechanical measuring devices	36	28	8	-	107	39	68	-
3822	Automatic temperature controls	20	14	4	2	124	22	(D)	(D)
387	Watches, clocks, and watchcases	25	19	5	1	154	(D)	(D)	(D)
3871	Watches and clocks	15	10	4	1	135	18	(D)	(D)
3872	Watchcases	10	9	1	-	19	(D)	(D)	-
		AUTOMATIC SCREW MACHINE DEPARTMENT							
	Major groups 19 and 34 to 38, total	3,467	1,704	1,149	614	45,051	3,062	11,042	30,947
19	Ordnance and accessories	27	8	8	11	(D)	(D)	(D)	(D)
1911 and 1999	Guns, howitzers, and mortars and ordnance and accessories, n.e.c	5	3	1	1	(D)	(D)	(D)	(D)
192	Missiles and ammunition, n.e.c	9	-	4	5	319	-	37	282
1925	Complete guided missiles	4	-	4	-	37	-	37	-
1929	Ammunition, n.e.c	5	-	-	5	282	-	-	282
1951	Small arms, 30 mm. and under	10	5	2	3	148	(D)	(D)	127
1961	Small arms ammunition	3	-	1	2	53	-	(D)	(D)
34	Fabricated metal products	1,421	577	557	287	(D)	(D)	5,468	(D)
342	Cutlery, hand tools, hardware	151	86	49	16	1,079	(D)	(D)	(D)
3421	Cutlery	6	4	1	1	41	(D)	(D)	(D)
3423	Hand and edge tools	62	35	19	8	459	56	155	248
3425	Hand saws and saw blades	3	3	-	-	6	6	-	-
3429	Hardware, n.e.c	80	44	29	7	573	75	285	213
343	Plumbing and heating, except electric	47	20	16	11	(D)	(D)	(D)	392
3431	Metal plumbing fixtures	2	1	1	-	(D)	(D)	(D)	-
3432	Plumbing fittings, brass goods	27	12	9	6	331	23	93	215
3433	Heating equipment, except electric	18	7	6	5	250	14	59	177
344	Structural metal products	38	32	4	2	154	52	(D)	(D)
3441	Fabricated structural steel	8	8	-	-	9	9	-	-
3442	Metal doors, sash, and trim	4	2	2	-	15	(D)	(D)	-
3443	Boiler shop products	10	9	-	1	42	(D)	-	(D)
3444	Sheet metal work	7	7	-	-	13	13	-	-
3446	Architectural metal work	4	3	-	1	52	(D)	-	(D)
3449	Miscellaneous metal work, n.e.c	5	3	2	-	23	(D)	(D)	-

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963—Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		AUTOMATIC SCREW MACHINE DEPARTMENT—Continued							
34	Fabricated metal products—Continued								
345	Screw machine products, bolts, etc	981	329	429	223	14,811	509	4,335	9,967
3451	Screw machine products[6]	860	281	384	195	12,226	420	3,839	7,967
3452	Bolts, nuts, rivets, and washers	121	48	45	28	2,585	89	496	2,000
3461	Metal stampings	38	25	12	1	285	42	(D)	(D)
3481	Fabricated wire products, n.e.c	14	10	2	2	92	17	(D)	(D)
349	Fabricated metal products, n.e.c	152	75	45	32	2,197	147	378	1,672
3494	Valves and pipe fittings	113	56	34	23	1,779	113	285	1,381
3498	Fabricated pipe and fittings	17	5	6	6	283	9	51	223
3499	Fabricated metal products, n.e.c	22	14	5	3	135	25	42	68
35	Machinery, except electrical	1,205	746	311	148	(D)	1,345	(D)	8,004
351	Engines and turbines	25	7	3	15	1,110	9	24	1,077
3511	Steam engines and turbines	4	-	-	4	342	-	-	342
3519	Internal combustion engines	21	7	3	11	768	9	24	735
3522	Farm machinery and equipment	65	43	16	6	626	71	165	390
353	Construction and like equipment	100	62	28	10	980	(D)	250	(D)
3531	Construction machinery	29	18	5	6	542	29	44	469
3532	Mining machinery and equipment	8	3	4	1	117	5	(D)	(D)
3533	Oil field machinery	20	12	6	2	138	22	(D)	(D)
3534	Elevators and moving stairways	5	2	3	-	36	(D)	(D)	-
3535	Conveyors	15	11	4	-	54	25	29	-
3536	Hoists, cranes, and monorails	8	7	1	-	21	(D)	(D)	-
3537	Industrial trucks and tractors	15	9	5	1	72	11	(D)	(D)
354	Metalworking machinery	262	179	64	19	1,624	338	(D)	(D)
3541	Metal-cutting machine tools	51	29	17	5	340	56	154	130
3542	Metal-forming machine tools	28	17	9	2	217	26	(D)	(D)
3544	Special dies and tools	64	57	7	-	174	103	71	-
3545	Machine tool accessories	74	57	12	5	332	113	104	115
3548	Metalworking machinery, n.e.c	45	19	19	7	561	40	200	321
355	Special industry machinery	136	89	30	17	(D)	(D)	267	617
3551	Food products machinery	27	20	4	3	135	27	33	75
3552	Textile machinery	50	23	16	11	595	43	142	410
3553	Woodworking machinery	17	14	2	1	67	23	(D)	(D)
3554	Paper industries machinery	1	1	-	-	(D)	(D)	-	-
3555	Printing trades machinery	14	11	1	2	139	18	(D)	(D)
3559	Special industry machines, n.e.c	27	20	7	-	92	33	59	-
356	General industrial machinery	227	108	71	48	3,885	(D)	(D)	(D)
3561	Pumps and compressors	51	32	14	5	482	61	135	286
3562	Ball and roller bearings	65	16	15	34	2,530	34	124	2,372
3564	Blowers and fans	5	3	2	-	23	(D)	(D)	-
3565	Industrial patterns	-	-	-	-	-	-	-	-
3566	Power transmission equipment	80	36	36	8	757	68	324	365
3569	General industry machines, n.e.c	26	21	4	1	93	34	(D)	(D)
357	Office machines, n.e.c	53	18	15	20	1,294	(D)	(D)	(D)
3571	Computing and related machines	19	4	6	9	630	7	58	565
3572	Typewriters	9	2	1	6	381	(D)	(D)	360
3576	Scales and balances	6	3	1	2	68	9	(D)	(D)
3579	Office machines, n.e.c	19	9	7	3	215	19	63	133
358	Service industry machines	44	28	12	4	(D)	(D)	123	(D)
3581	Automatic vending machines	8	4	3	1	58	8	(D)	(D)
3582	Commercial laundry equipment	1	1	-	-	(D)	(D)	-	-
3585	Refrigeration machinery	16	11	4	1	83	19	(D)	(D)
3586	Measuring and dispensing pumps	10	4	4	2	174	11	(D)	(D)
3589	Service industry machines, n.e.c	9	8	1	-	24	(D)	(D)	-
3599	Miscellaneous machinery	293	212	72	9	1,302	375	632	295
36	Electrical machinery	409	188	139	82	(D)	377	1,349	(D)
361	Electric distribution products	53	25	18	10	660	41	176	443
3611	Electric measuring instruments	28	17	7	4	279	23	70	186
3613	Switchgear and switchboards	25	8	11	6	381	18	106	257
362	Electric industrial apparatus	82	39	33	10	896	(D)	(D)	(D)
3621	Motors and generators	61	25	28	8	721	65	271	385
3622	Industrial controls	18	12	4	2	163	22	(D)	(D)
3629	Electric industrial goods, n.e.c	3	2	1	-	12	(D)	(D)	-

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963—Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		AUTOMATIC SCREW MACHINE DEPARTMENT—Continued							
36	Electrical machinery—Continued								
363	Household appliances	42	10	19	13	912	(D)	182	(D)
3631	Household cooking equipment	3	1	2	-	24	(D)	(D)	-
3632	Household refrigerators	3	-	-	3	148	-	-	148
3633	Household laundry equipment	9	-	7	2	229	-	(D)	(D)
3634	Electric housewares and fans	10	2	3	5	212	(D)	(D)	181
3635	Household vacuum cleaners	3	-	3	-	34	-	34	-
3636	Sewing machines	7	2	2	3	236	(D)	(D)	218
3639	Household appliances, n.e.c	7	5	2	-	29	(D)	(D)	-
364	Lighting and wiring devices	63	38	17	8	774	79	(D)	(D)
3642	Lighting fixtures	17	12	4	1	81	23	(D)	(D)
3643	Current carrying devices	28	15	9	4	422	32	89	301
3644	Noncurrent carrying devices	18	11	4	3	271	24	32	215
3651	Radio and TV receiving sets	11	7	1	3	148	11	(D)	(D)
366	Communication equipment	65	30	23	12	891	60	(D)	(D)
3661	Telephone; telegraph apparatus	19	3	6	10	614	8	60	546
3662	Radio, TV communications equipment	46	27	17	2	277	52	(D)	(D)
367	Electronic components	67	29	19	19	(D)	(D)	(D)	1,231
3673	Electron tubes, transmitting	1	1	-	-	(D)	(D)	-	-
3674	Semiconductors	4	2	2	-	25	(D)	(D)	-
3679	Electronic components, n.e.c	62	26	17	19	1,451	47	173	1,231
3694	Engine electrical equipment	26	10	9	7	618	23	84	511
37	Transportation equipment	270	121	89	60	(D)	241	821	(D)
371	Motor vehicles and equipment	142	52	47	43	(D)	(D)	(D)	2,617
3713	Truck and bus bodies	2	1	1	-	(D)	(D)	(D)	-
3717	Motor vehicles and parts	140	51	46	43	3,180	104	459	2,617
372	Aircraft and parts	111	63	36	12	1,111	125	304	682
3721	Aircraft	10	5	5	-	51	12	39	-
3722	Aircraft engines and parts	36	20	12	4	295	42	104	149
3729	Aircraft equipment, n.e.c	65	38	19	8	765	71	161	533
374	Railroad equipment	5	-	3	2	(D)	-	(D)	(D)
3741	Locomotives and parts	2	-	2	-	(D)	-	(D)	-
3742	Railroad and street cars	3	-	1	2	56	-	(D)	(D)
3751	Motorcycles, bicycles, and parts	7	2	2	3	124	(D)	(D)	98
3799	Transportation equipment, n.e.c	5	4	1	-	12	(D)	6	-
38	Instruments and related products	135	64	45	26	(D)	(D)	(D)	(D)
3811	Scientific instruments	22	15	7	-	110	33	77	-
382	Mechanical measuring devices	91	43	31	17	1,380	88	336	956
3821	Mechanical measuring devices	61	37	20	4	665	76	235	354
3822	Automatic temperature controls	30	6	11	13	715	12	101	602
387	Watches, clocks, and watchcases	22	6	7	9	(D)	(D)	(D)	(D)
3871	Watches and clocks	19	5	6	8	577	10	69	498
3872	Watchcases	3	1	1	1	(D)	(D)	(D)	(D)
		MACHINE SHOPS							
	Major groups 19 and 33 to 38, total	18,581	6,506	7,007	5,068	579,434	11,874	68,681	498,879
19	Ordnance and accessories	121	19	30	72	10,266	34	312	9,920
1911 and 1999	Guns, howitzers, and mortars and ordnance and accessories, n.e.c	28	3	9	16	2,040	6	84	1,950
192	Missiles and ammunition, n.e.c	44	5	8	31	5,071	(D)	(D)	4,959
1925	Complete guided missiles	21	1	6	14	3,341	(D)	(D)	3,262
1929	Ammunition, n.e.c	23	4	2	17	1,730	(D)	(D)	1,697
1931	Tanks and tank components	18	3	2	13	2,053	(D)	(D)	2,026
1951	Small arms, 30 mm. and under	22	6	9	7	873	10	83	780
1961	Small arms ammunition	9	2	2	5	229	(D)	(D)	205
33	Primary metal industries	734	282	285	167	16,522	546	(D)	(D)
332	Iron and steel foundries	337	138	111	88	7,439	268	1,155	6,016
3321	Gray iron foundries	237	116	67	54	4,588	232	666	3,690
3322	Malleable iron foundries	18	9	6	3	212	18	66	128
3323	Steel foundries	82	13	38	31	2,639	18	423	2,198

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963--Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		MACHINE SHOPS—Continued							
33	Primary metal industries—Continued								
336	Nonferrous foundries	283	110	124	49	4,344	215	1,181	2,948
3361	Aluminum castings	124	41	60	23	2,207	68	597	1,542
3362	Brass, bronze, copper castings	93	34	44	15	1,447	79	395	973
3369	Nonferrous castings, n.e.c	66	35	20	11	690	68	189	433
339	Primary metal industries, n.e.c	114	34	50	30	4,739	63	(D)	(D)
3391	Iron and steel forgings	100	30	42	28	3,943	57	466	3,420
3392	Nonferrous forgings	14	4	8	2	796	6	(D)	(D)
34	Fabricated metal products	3,655	1,630	1,287	738	(D)	(D)	(D)	(D)
3411	Metal cans	128	29	53	46	2,826	70	587	2,169
342	Cutlery, hand tools, hardware	534	205	208	121	9,321	391	1,981	6,949
3421	Cutlery	46	23	19	4	413	50	157	206
3423	Hand and edge tools	200	88	73	39	2,605	178	673	1,754
3425	Hand saws and saw blades	25	10	8	7	391	20	92	279
3429	Hardware, n.e.c	263	84	108	71	5,912	143	1,059	4,710
343	Plumbing and heating, except electric	231	87	95	49	3,015	(D)	(D)	1,920
3431	Metal plumbing fixtures	13	2	6	5	316	(D)	(D)	273
3432	Plumbing fittings, brass goods	76	22	30	24	1,206	32	307	867
3433	Heating equipment, except electric	142	63	59	20	1,493	117	596	780
344	Structural metal products	822	476	257	89	7,252	883	2,327	4,042
3441	Fabricated structural steel	197	121	56	20	1,595	228	508	859
3442	Metal doors, sash, and trim	105	56	36	13	1,069	108	347	614
3443	Boiler shop products	234	112	86	36	2,854	205	810	1,839
3444	Sheet metal work	182	121	50	11	996	229	378	389
3446	Architectural metal work	52	41	8	3	286	73	114	99
3449	Miscellaneous metal work, n.e.c	52	25	21	6	452	40	170	242
345	Screw machine products, bolts, etc	620	245	234	141	10,016	394	2,374	7,248
3451	Screw machine products	434	174	169	91	6,167	258	1,701	4,208
3452	Bolts, nuts, rivets, and washers	186	71	65	50	3,849	136	673	3,040
3461	Metal stampings	414	236	139	39	3,528	453	1,201	1,874
3481	Fabricated wire products, n.e.c	192	116	67	9	1,065	209	555	301
349	Fabricated metal products, n.e.c	714	236	234	244	(D)	(D)	2,409	(D)
3491	Metal barrels, drums, and pails	44	16	22	6	411	33	199	179
3492	Safes and vaults	10	4	3	3	(D)	(D)	(D)	(D)
3493	Steel springs	26	14	10	2	168	30	(D)	(D)
3494	Valves and pipe fittings	364	58	111	195	18,851	96	1,227	17,528
3496	Collapsible tubes	16	2	9	5	328	(D)	(D)	220
3497	Metal foil and leaf	11	5	2	4	222	(D)	(D)	186
3498	Fabricated pipe and fittings	74	35	31	8	729	65	344	320
3499	Fabricated metal products, n.e.c	169	102	46	21	1,505	186	400	919
35	Machinery, except electrical	9,695	3,035	4,027	2,633	279,688	(D)	39,540	(D)
351	Engines and turbines	94	11	15	68	21,742	21	(D)	(D)
3511	Steam engines and turbines	20	-	2	18	8,366	-	(D)	(D)
3519	Internal combustion engines	74	11	13	50	13,376	21	157	13,198
3522	Farm machinery and equipment	487	246	154	87	12,836	462	1,547	10,827
353	Construction and like equipment	916	307	307	302	34,710	558	3,060	31,092
3531	Construction machinery	289	81	89	119	17,531	138	902	16,491
3532	Mining machinery and equipment	91	27	34	30	3,080	46	397	2,637
3533	Oil field machinery	172	36	63	73	7,304	71	635	6,598
3534	Elevators and moving stairways	57	23	17	17	1,189	45	152	992
3535	Conveyors	168	87	60	21	1,777	153	568	1,056
3536	Hoists, cranes, and monorails	56	20	13	23	1,736	38	148	1,550
3537	Industrial trucks and tractors	83	33	31	19	2,093	67	258	1,768
354	Metalworking machinery	1,963	584	803	576	65,694	918	8,063	56,713
3541	Metal-cutting machine tools	316	74	103	139	22,515	114	1,067	21,334
3542	Metal-forming machine tools	163	32	58	73	7,779	49	641	7,089
3544	Special dies and tools	1,013	359	492	162	13,346	559	4,772	8,015
3545	Machine tool accessories	304	78	105	121	11,505	112	1,131	10,262
3548	Metalworking machinery, n.e.c	167	41	45	81	10,549	84	452	10,013
355	Special industry machinery	1,298	372	485	441	45,723	668	4,768	40,287
3551	Food products machinery	297	95	126	76	6,342	186	1,246	4,910
3552	Textile machinery	234	64	88	82	9,282	89	851	8,342
3553	Woodworking machinery	119	31	45	43	3,274	50	467	2,757
3554	Paper industries machinery	102	21	31	50	7,779	22	330	7,427
3555	Printing trades machinery	125	26	47	52	7,135	65	468	6,602
3559	Special industry machines, n.e.c	421	135	148	138	11,911	256	1,406	10,249

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963—Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		MACHINE SHOPS—Continued							
35	Machinery, except electrical—Continued								
356	General industrial machinery	1,090	333	354	403	35,760	628	(D)	(D)
3561	Pumps and compressors	294	74	86	134	11,913	154	862	10,897
3562	Ball and roller bearings	75	18	18	39	3,453	29	164	3,260
3564	Blowers and fans	50	21	16	13	1,214	47	146	1,021
3565	Industrial patterns	53	30	21	2	306	50	(D)	(D)
3566	Power transmission equipment	284	53	99	132	13,018	73	1,062	11,883
3567	Industrial furnaces and ovens	85	50	20	15	1,598	103	198	1,297
3569	General industry machines, n.e.c	249	87	94	68	4,258	172	974	3,112
357	Office machines, n.e.c	178	59	56	63	6,624	(D)	(D)	5,977
3571	Computing and related machines	93	37	28	28	3,196	71	292	2,833
3572	Typewriters	11	3	1	7	1,193	(D)	(D)	1,177
3576	Scales and balances	30	9	13	8	577	22	112	443
3579	Office machines, n.e.c	44	10	14	20	1,658	15	119	1,524
358	Service industry machines	361	154	129	78	8,824	287	1,125	7,412
3581	Automatic vending machines	32	15	12	5	283	40	93	150
3582	Commercial laundry equipment	44	15	17	12	1,547	33	160	1,354
3585	Refrigeration machinery	164	73	56	35	5,120	118	470	4,532
3586	Measuring and dispensing pumps	27	7	8	12	955	15	74	866
3589	Service industry machines, n.e.c	94	44	36	14	919	81	328	510
3599	Miscellaneous machinery	3,308	969	1,724	615	47,775	1,668	16,651	29,456
36	Electrical machinery	2,297	902	759	636	61,597	(D)	7,356	(D)
361	Electric distribution products	272	120	80	72	5,796	239	800	4,757
3611	Electric measuring instruments	138	59	46	33	2,320	102	478	1,740
3612	Transformers	36	17	5	14	1,080	32	50	998
3613	Switchgear and switchboards	98	44	29	25	2,396	105	272	2,019
362	Electric industrial apparatus	406	141	131	134	12,853	271	1,286	11,296
3621	Motors and generators	174	43	44	87	8,793	92	476	8,225
3622	Industrial controls	95	46	33	16	2,042	71	294	1,677
3623	Electric welding apparatus	61	20	22	19	1,244	51	255	938
3624	Carbon and graphite products	19	3	11	5	278	7	92	179
3629	Electric industrial goods, n.e.c	57	29	21	7	496	50	169	277
363	Household appliances	148	46	49	53	7,139	(D)	(D)	(D)
3631	Household cooking equipment	19	8	7	4	349	14	60	275
3632	Household refrigerators	8	-	2	6	1,027	-	(D)	(D)
3633	Household laundry equipment	21	1	7	13	1,205	(D)	(D)	1,150
3634	Electric housewares and fans	45	14	19	12	1,437	30	111	1,296
3635	Household vacuum cleaners	8	4	-	4	266	6	-	260
3636	Sewing machines	21	7	6	8	2,510	17	68	2,425
3639	Household appliances, n.e.c	26	12	8	6	345	29	102	214
364	Lighting and wiring devices	327	149	108	70	4,771	(D)	(D)	3,479
3641	Electric lamps	17	2	9	6	462	(D)	(D)	376
3642	Lighting fixtures	168	94	54	20	1,486	170	510	806
3643	Current carrying devices	81	33	26	22	1,343	71	211	1,061
3644	Noncurrent carrying devices	61	20	19	22	1,480	44	200	1,236
3651	Radio and TV receiving sets	55	24	19	12	1,068	52	184	832
366	Communication equipment	464	163	159	142	18,268	321	1,561	16,386
3661	Telephone; telegraph apparatus	40	7	13	20	2,919	11	136	2,772
3662	Radio, TV communications equipment	424	156	146	122	15,349	310	1,425	13,614
367	Electronic components	503	204	174	125	9,857	438	(D)	(D)
3671	Electron tubes, receiving type	18	3	7	8	354	7	91	256
3672	Cathode ray picture tubes	5	-	2	3	116	-	(D)	(D)
3673	Electron tubes, transmitting	28	4	8	16	1,316	10	92	1,214
3674	Semiconductors	45	18	12	15	723	43	117	563
3679	Electronic components, n.e.c	407	179	145	83	7,348	378	1,395	5,575
369	Electrical products, n.e.c	122	55	39	28	1,845	106	384	1,355
3691	Storage batteries	18	6	8	4	236	14	76	146
3692	Primary batteries, dry and wet	4	4	-	-	9	9	-	-
3693	X-ray apparatus and tubes	30	13	9	8	485	23	94	368
3694	Engine electrical equipment	41	16	12	13	907	31	120	756
3699	Electrical products, n.e.c	29	16	10	3	208	29	94	85
37	Transportation equipment	1,592	460	445	687	(D)	(D)	(D)	135,254
371	Motor vehicles and equipment	562	162	144	256	66,068	303	1,513	64,252
3713	Truck and bus bodies	50	32	12	6	551	60	132	359
3715	Truck trailers	44	23	13	8	491	47	153	291
3717	Motor vehicles and parts	468	107	119	242	65,026	196	1,228	63,602

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963--Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		MACHINE SHOPS—Continued							
37	Transportation equipment—Continued								
372	Aircraft and parts	685	133	197	355	64,211	212	2,085	61,914
3721	Aircraft	53	10	13	30	12,980	26	134	12,820
3722	Aircraft engines and parts	166	29	34	103	27,149	45	374	26,730
3729	Aircraft equipment, n.e.c	466	94	150	222	24,082	141	1,577	22,364
373	Ship and boat building	236	116	72	48	5,286	197	672	4,417
3731	Ship building and repairing	138	48	47	43	4,827	73	492	4,262
3732	Boat building and repairing	98	68	25	5	459	124	180	155
374	Railroad equipment	44	11	12	21	4,346	(D)	(D)	4,180
3741	Locomotives and parts	10	3	1	6	2,014	(D)	(D)	1,999
3742	Railroad and street cars	34	8	11	15	2,332	20	131	2,181
3751	Motorcycles, bicycles, and parts	17	6	8	3	429	13	88	328
379	Transportation equipment, n.e.c	48	32	12	4	(D)	(D)	90	163
3791	Trailer coaches	2	2	-	-	(D)	(D)	-	-
3799	Transportation equipment, n.e.c	46	30	12	4	307	54	90	163
38	Instruments and related products	487	178	174	135	11,189	356	1,617	9,216
3811	Scientific instruments	191	72	79	40	3,081	154	693	2,234
382	Mechanical measuring devices	263	93	87	83	7,428	180	857	6,391
3821	Mechanical measuring devices	222	81	80	61	5,129	162	798	4,169
3822	Automatic temperature controls	41	12	7	22	2,299	18	59	2,222
387	Watches, clocks, and watchcases	33	13	8	12	680	22	67	591
3871	Watches and clocks	25	9	8	8	537	13	67	457
3872	Watchcases	8	4	-	4	143	9	-	134
		TOOL AND DIE SHOPS (OPERATED SEPARATELY FROM MACHINE SHOPS)							
	Major groups 19 and 33 to 38, total	8,771	4,038	3,165	1,568	148,880	7,390	30,347	111,143
19	Ordnance and accessories	76	16	24	36	5,146	(D)	(D)	4,905
1911 and 1999	Guns, howitzers, and mortars and ordnance and accessories, n.e.c	14	4	6	4	205	8	49	148
192	Missiles and ammunition, n.e.c	31	4	6	21	4,194	(D)	(D)	4,123
1925	Complete guided missiles	16	2	2	12	3,601	(D)	(D)	3,574
1929	Ammunition, n.e.c	15	2	4	9	593	(D)	(D)	549
1931	Tanks and tank components	8	-	5	3	277	-	41	236
1951	Small arms, 30 mm. and under	16	6	5	5	326	7	47	272
1961	Small arms ammunition	7	2	2	3	144	(D)	(D)	126
33	Primary metal industries	110	30	40	40	2,811	50	419	2,342
3391	Iron and steel forgings	95	25	35	35	2,413	43	368	2,002
3392	Nonferrous forgings	15	5	5	5	398	7	51	340
34	Fabricated metal products	2,290	1,357	731	202	(D)	(D)	(D)	(D)
3411	Metal cans	12	7	4	1	107	15	(D)	(D)
342	Cutlery, hand tools, hardware	376	211	122	43	4,784	424	(D)	(D)
3421	Cutlery	25	12	11	2	157	23	(D)	(D)
3423	Hand and edge tools	114	67	34	13	945	136	350	459
3425	Hand saws and saw blades	11	6	5	-	60	10	50	-
3429	Hardware, n.e.c	226	126	72	28	3,622	255	687	2,680
343	Plumbing and heating, except electric	121	70	46	5	688	(D)	(D)	(D)
3431	Metal plumbing fixtures	8	6	2	-	29	(D)	(D)	-
3432	Plumbing fittings, brass goods	47	27	17	3	276	50	149	77
3433	Heating equipment, except electric	66	37	27	2	383	67	(D)	(D)
344	Structural metal products	286	217	62	7	1,237	(D)	502	(D)
3441	Fabricated structural steel	25	24	-	1	69	(D)	-	(D)
3442	Metal doors, sash, and trim	74	50	22	2	373	100	(D)	(D)
3443	Boiler shop products	24	15	8	1	212	35	(D)	(D)
3444	Sheet metal work	118	94	22	2	408	161	(D)	(D)
3446	Architectural metal work	25	18	6	1	101	25	(D)	(D)
3449	Miscellaneous metal work, n.e.c	20	16	4	-	74	32	42	-
345	Screw machine products, bolts, etc	282	160	88	34	2,842	248	(D)	(D)
3451	Screw machine products	144	108	35	1	515	161	(D)	(D)
3452	Bolts, nuts, rivets, and washers	138	52	53	33	2,327	87	514	1,726
3461	Metal stampings	722	394	258	70	6,077	772	2,308	2,997
3481	Fabricated wire products, n.e.c	168	118	46	4	714	213	405	96

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963—Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		TOOL AND DIE SHOPS (OPERATED SEPARATELY FROM MACHINE SHOPS)—Continued							
34	Fabricated metal products—Continued								
349	Fabricated metal products, n.e.c	323	180	105	38	(D)	(D)	935	(D)
3491	Metal barrels, drums, and pails	9	8	-	1	58	(D)	-	(D)
3492	Safes and vaults	4	1	2	1	(D)	(D)	(D)	(D)
3493	Steel springs	15	7	7	1	96	10	(D)	(D)
3494	Valves and pipe fittings	176	75	72	29	1,958	166	653	1,139
3498	Fabricated pipe and fittings	20	15	4	1	90	29	(D)	(D)
3499	Fabricated metal products, n.e.c	99	74	20	5	411	116	160	135
35	Machinery, except electrical	4,100	1,720	1,627	753	58,408	(D)	15,787	(D)
351	Engines and turbines	57	12	19	26	2,012	(D)	(D)	1,817
3511	Steam engines and turbines	14	2	3	9	775	(D)	(D)	740
3519	Internal combustion engines	43	10	16	17	1,237	23	137	1,077
3522	Farm machinery and equipment	216	122	61	33	2,631	218	556	1,857
353	Construction and like equipment	251	126	84	41	3,440	(D)	(D)	(D)
3531	Construction machinery	99	50	30	19	1,931	87	288	1,556
3532	Mining machinery and equipment	16	11	1	4	152	(D)	(D)	113
3533	Oil field machinery	41	12	22	7	613	29	208	376
3534	Elevators and moving stairways	19	12	4	3	159	23	34	102
3535	Conveyors	35	23	11	1	177	47	(D)	(D)
3536	Hoists, cranes, and monorails	14	5	6	3	156	8	81	67
3537	Industrial trucks and tractors	27	13	10	4	252	28	108	116
354	Metalworking machinery	2,173	683	998	492	36,172	1,083	10,011	25,078
3541	Metal-cutting machine tools	101	44	33	24	1,641	81	333	1,227
3542	Metal-forming machine tools	58	26	22	10	578	42	211	325
3544	Special dies and tools	1,799	529	857	413	31,244	834	8,632	21,778
3545	Machine tool accessories	146	50	62	34	1,973	62	610	1,301
3548	Metalworking machinery, n.e.c	69	34	24	11	736	64	225	447
355	Special industry machinery	280	159	98	23	2,241	288	(D)	(D)
3551	Food products machinery	59	41	15	3	273	68	114	91
3552	Textile machinery	60	32	20	8	769	54	197	518
3553	Woodworking machinery	31	20	10	1	247	40	(D)	(D)
3554	Paper industries machinery	19	10	8	1	105	25	(D)	(D)
3555	Printing trades machinery	31	12	18	1	255	26	(D)	(D)
3559	Special industry machines, n.e.c	80	44	27	9	592	75	248	269
356	General industrial machinery	341	167	119	55	4,196	308	(D)	(D)
3561	Pumps and compressors	99	48	41	10	758	94	382	282
3562	Ball and roller bearings	48	12	15	21	1,893	15	179	1,699
3564	Blowers and fans	23	11	8	4	185	24	64	97
3565	Industrial patterns	22	12	7	3	149	18	50	81
3566	Power transmission equipment	86	39	31	16	931	75	295	561
3569	General industry machines, n.e.c	63	45	17	1	280	82	(D)	(D)
357	Office machines, n.e.c	97	32	33	32	3,001	(D)	(D)	(D)
3571	Computing and related machines	41	12	10	19	1,971	17	89	1,865
3572	Typewriters	12	2	3	7	524	(D)	(D)	495
3576	Scales and balances	12	6	4	2	96	13	(D)	(D)
3579	Office machines, n.e.c	32	12	16	4	410	21	147	242
358	Service industry machines	186	107	61	18	1,376	199	513	664
3581	Automatic vending machines	33	17	12	4	243	36	92	115
3582	Commercial laundry equipment	16	11	5	-	68	25	43	-
3585	Refrigeration machinery	93	57	25	11	804	102	239	463
3586	Measuring and dispensing pumps	11	-	8	3	157	-	71	86
3589	Service industry machines, n.e.c	33	22	11	-	104	36	68	-
3599	Miscellaneous machinery	499	312	154	33	3,339	542	1,387	1,410
36	Electrical machinery	1,240	565	443	232	(D)	(D)	(D)	(D)
361	Electric distribution products	154	68	59	27	1,898	130	585	1,183
3611	Electric measuring instruments	55	33	15	7	546	55	148	343
3612	Transformers	20	5	10	5	321	11	109	201
3613	Switchgear and switchboards	79	30	34	15	1,031	64	328	639
362	Electric industrial apparatus	194	89	63	42	2,756	(D)	(D)	(D)
3621	Motors and generators	118	43	45	30	1,829	90	413	1,326
3622	Industrial controls	29	18	5	6	547	31	57	459
3623	Welding apparatus	17	9	5	3	211	18	56	137
3624	Carbon and graphite products	7	2	3	2	67	(D)	17	(D)
3629	Electric industrial goods, n.e.c	23	17	5	1	102	38	(D)	(D)

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963--Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		TOOL AND DIE SHOPS (OPERATED SEPARATELY FROM MACHINE SHOPS)—Continued							
36	Electrical machinery—Continued								
363	Household appliances	136	49	53	34	2,495	108	(D)	(D)
3631	Household cooking equipment	17	4	8	5	296	10	107	179
3632	Household refrigerators	15	4	4	7	793	11	54	728
3633	Household laundry equipment	20	7	7	6	401	15	99	287
3634	Electric housewares and fans	49	18	22	9	590	37	235	318
3635	Household vacuum cleaners	7	4	-	3	174	10	-	164
3636	Sewing machines	6	-	4	2	94	-	(D)	(D)
3639	Household appliances, n.e.c	22	12	8	2	147	25	(D)	(D)
364	Lighting and wiring devices	254	143	83	28	2,336	258	782	1,296
3642	Lighting fixtures	118	83	29	6	784	143	264	377
3643	Current carrying devices	80	31	31	18	1,120	60	298	762
3644	Noncurrent carrying devices	56	29	23	4	432	55	220	157
3651	Radio and TV receiving sets	44	22	17	5	579	43	191	345
366	Communication equipment	153	48	53	52	4,475	90	529	3,856
3661	Telephone; telegraph apparatus	29	3	9	17	1,688	10	85	1,593
3662	Radio, TV communications equipment	124	45	44	35	2,787	80	444	2,263
367	Electronic components	247	123	91	33	(D)	(D)	(D)	(D)
3671	Electron tubes, receiving type	5	-	4	1	81	-	(D)	(D)
3672	Cathode ray picture tubes	2	-	-	2	(D)	-	-	(D)
3673	Electron tubes, transmitting	14	1	7	6	284	(D)	(D)	212
3674	Semiconductors	13	4	5	4	429	10	45	374
3679	Electronic components, n.e.c	213	118	75	20	2,179	253	731	1,195
369	Electrical products, n.e.c	58	23	24	11	(D)	(D)	(D)	(D)
3691	Storage batteries	3	2	1	-	(D)	(D)	(D)	-
3692	Primary batteries, dry and wet	4	-	4	-	33	-	33	-
3693	X-ray apparatus and tubes	11	7	2	2	75	11	(D)	(D)
3694	Engine electrical equipment	40	14	17	9	1,554	28	144	1,382
37	Transportation equipment	737	248	223	266	(D)	501	2,204	(D)
371	Motor vehicles and equipment	353	100	106	147	23,672	(D)	(D)	(D)
3713	Truck and bus bodies	22	9	12	1	121	13	(D)	(D)
3715	Truck trailers	12	7	3	2	92	(D)	27	(D)
3717	Motor vehicles and parts	319	84	91	144	23,459	165	951	22,343
372	Aircraft and parts	292	103	88	101	(D)	(D)	826	(D)
3721	Aircraft	38	7	4	27	8,559	18	42	8,499
3722	Aircraft engines and parts	91	23	32	36	3,605	52	303	3,250
3723	Aircraft propellers and parts	4	2	-	2	(D)	(D)	-	(D)
3729	Aircraft equipment, n.e.c	159	71	52	36	4,070	149	481	3,440
373	Ship and boat building	24	15	6	3	230	27	(D)	(D)
3731	Ship building and repairing	13	7	4	2	156	13	(D)	(D)
3732	Boat building and repairing	11	8	2	1	74	14	(D)	(D)
374	Railroad equipment	28	5	12	11	962	12	(D)	(D)
3741	Locomotives and parts	5	-	1	4	452	-	(D)	(D)
3742	Railroad and street cars	23	5	11	7	510	12	132	366
3751	Motorcycles, bicyles, and parts	14	6	5	3	256	10	56	190
379	Transportation equipment, n.e.c	26	19	6	1	(D)	(D)	56	25
3791	Trailer coaches	1	1	-	-	(D)	(D)	-	-
3799	Transportation equipment, n.e.c	25	18	6	1	112	31	56	25
38	Instruments and related products	218	102	77	39	2,552	186	(D)	(D)
3811	Scientific instruments	50	37	9	4	280	62	81	137
382	Mechanical measuring devices	126	49	50	27	1,733	99	479	1,155
3821	Mechanical measuring devices	94	42	38	14	1,028	88	343	597
3822	Automatic temperature controls	32	7	12	13	705	11	136	558
387	Watches, clocks, and watchcases	42	16	18	8	539	25	(D)	(D)
3871	Watches and clocks	30	10	14	6	420	15	144	261
3872	Watchcases	12	6	4	2	119	10	(D)	(D)

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963—Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		FOUNDRY PATTERN SHOPS							
	Major groups 19 and 33 to 38, total...	2,148	1,340	631	177	15,803	2,353	5,720	7,730
19	Ordnance and accessories.....	7	4	1	2	78	(D)	(D)	(D)
1911 and 1999	Guns, howitzers, and mortars and ordnance and accessories, n.e.c.....	1	1	-	-	(D)	(D)	-	-
192	Missiles and ammunition, n.e.c.....	5	2	1	2	(D)	(D)	(D)	(D)
1925	Complete guided missiles.....	4	1	1	2	73	(D)	(D)	(D)
1929	Ammunition, n.e.c.....	1	1	-	-	(D)	(D)	-	-
1961	Small arms ammunition.....	1	1	-	-	(D)	(D)	-	-
33	Primary metal industries.....	648	428	168	52	4,500	793	(D)	(D)
332	Iron and steel foundries.....	469	300	125	44	3,529	556	(D)	(D)
3321	Gray iron foundries.....	309	236	52	21	2,015	416	440	1,159
3322	Malleable iron foundries.....	49	21	26	2	314	40	(D)	(D)
3323	Steel foundries.....	111	43	47	21	1,200	100	401	699
336	Nonferrous foundries.....	179	128	43	8	971	237	(D)	(D)
3361	Aluminum castings.....	97	66	24	7	679	126	190	363
3362	Brass, bronze, copper castings.....	64	52	12	-	184	88	96	-
3369	Nonferrous castings, n.e.c.....	18	10	7	1	108	23	(D)	(D)
34	Fabricated metal products.....	281	202	70	9	(D)	332	680	(D)
3429	Hardware, n.e.c.....	37	34	2	1	83	45	(D)	(D)
343	Plumbing and heating, except electric.....	47	29	16	2	283	(D)	(D)	(D)
3431	Metal plumbing fixtures.....	7	1	5	1	95	(D)	(D)	(D)
3432	Plumbing fittings, brass goods.....	13	7	6	-	72	12	60	-
3433	Heating equipment, except electric.....	27	21	5	1	116	39	(D)	(D)
344	Structural metal products.....	63	48	15	-	220	(D)	(D)	-
3441	Fabricated structural steel.....	13	8	5	-	58	10	48	-
3442	Metal doors, sash, and trim.....	5	5	-	-	6	6	-	-
3443	Boiler shop products.....	15	9	6	-	75	19	56	-
3444	Sheet metal work.....	17	15	2	-	46	(D)	(D)	-
3446	Architectural metal work.....	10	8	2	-	32	(D)	(D)	-
3449	Miscellaneous metal work, n.e.c.....	3	3	-	-	3	3	-	-
345	Screw machine products, bolts, etc.....	6	5	1	-	(D)	(D)	(D)	-
3451	Screw machine products.....	4	3	1	-	25	(D)	(D)	-
3452	Bolts, nuts, rivets, and washers.....	2	2	-	-	(D)	(D)	-	-
3461	Metal stampings.....	20	17	2	1	125	23	(D)	(D)
349	Fabricated metal products, n.e.c.....	108	69	34	5	561	122	(D)	(D)
3494	Valves and pipe fittings.....	81	46	31	4	492	91	289	112
3498	Fabricated pipe and fittings.....	6	6	-	-	10	10	-	-
3499	Fabricated metal products, n.e.c.....	21	17	3	1	59	21	(D)	(D)
35	Machinery, except electrical.....	1,021	600	339	82	(D)	1,024	(D)	3,339
351	Engines and turbines.....	14	8	4	2	138	(D)	(D)	(D)
3511	Steam engines and turbines.....	5	3	1	1	63	(D)	(D)	(D)
3519	Internal combustion engines.....	9	5	3	1	75	8	(D)	(D)
3522	Farm machinery and equipment.....	47	32	10	5	331	45	119	167
353	Construction and like equipment.....	69	42	21	6	(D)	(D)	163	(D)
3531	Construction machinery.....	31	16	12	3	313	21	96	196
3532	Mining machinery and equipment.....	18	12	4	2	116	21	(D)	(D)
3534	Elevators and moving stairways.....	2	1	1	-	(D)	(D)	(D)	-
3535	Conveyors.....	6	4	2	-	21	(D)	(D)	-
3536	Hoists, cranes, and monorails.....	9	6	2	1	50	9	(D)	(D)
3537	Industrial trucks and tractors.....	3	3	-	-	3	3	-	-

See footnotes at end of table.....

TABLE 1A. Selected Metalworking Operations by Industry: 1963—Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		FOUNDRY PATTERN SHOPS—Continued							
35	Machinery, except electrical—Continued								
354	Metalworking machinery	141	84	39	18	1,330	(D)	(D)	(D)
3541	Metal-cutting machine tools	36	19	12	5	286	39	122	125
3542	Metal-forming machine tools	18	13	5	-	84	28	56	-
3544	Special dies and tools	69	40	18	11	831	75	175	581
3545	Machine tool accessories	7	5	1	1	38	(D)	(D)	(D)
3548	Metalworking machinery, n.e.c.	11	7	3	1	91	18	(D)	(D)
355	Special industry machinery	172	139	28	5	642	(D)	249	(D)
3551	Food products machinery	30	25	5	-	87	39	48	-
3552	Textile machinery	34	27	5	2	159	52	(D)	(D)
3553	Woodworking machinery	18	17	1	-	32	(D)	(D)	-
3554	Paper industries machinery	25	17	6	2	131	26	(D)	(D)
3555	Printing trades machinery	15	9	6	-	82	18	64	-
3559	Special industry machines, n.e.c.	50	44	5	1	151	71	(D)	(D)
356	General industrial machinery	497	226	226	45	4,345	(D)	2,126	(D)
3561	Pumps and compressores	54	35	16	3	374	64	166	144
3562	Ball and roller bearings	3	1	2	-	17	(D)	(D)	-
3564	Blowers and fans	9	7	2	-	38	(D)	(D)	-
3565	Industrial patterns	377	141	196	40	3,715	246	1,838	1,631
3566	Power transmission equipment	32	23	7	2	143	41	(D)	(D)
3569	General industry machines, n.e.c.	22	19	3	-	58	33	25	-
358	Service industry machines	27	21	6	-	(D)	(D)	(D)	-
3581	Automatic vending machines	5	4	1	-	13	(D)	(D)	-
3582	Commercial laundry equipment	1	-	1	-	(D)	-	(D)	-
3585	Refrigeration machinery	10	8	2	-	25	(D)	(D)	-
3586	Measuring and dispensing pumps	3	3	-	-	6	6	-	-
3589	Service industry machines, n.e.c.	8	6	2	-	22	(D)	(D)	-
3599	Miscellaneous machinery	54	48	5	1	147	71	(D)	(D)
36	Electrical machinery	52	34	15	3	339	(D)	140	(D)
361	Electric distribution products	7	5	2	-	22	(D)	(D)	-
3611	Electric measuring instruments	3	3	-	-	5	5	-	-
3613	Switchgear and switchboards	4	2	2	-	17	(D)	(D)	-
3621	Motors and generators	14	11	3	-	51	25	26	-
363	Household appliances	14	5	7	2	169	(D)	(D)	(D)
3631	Household cooking equipment	6	2	4	-	47	(D)	(D)	-
3632	Household refrigerators	1	-	1	-	(D)	-	(D)	-
3633	Household laundry equipment	1	1	-	-	(D)	(D)	-	-
3634	Electric housewares and fans	1	-	1	-	(D)	-	(D)	-
3635	Household vacuum cleaners	2	1	-	1	(D)	(D)	-	(D)
3636	Sewing machines	2	1	-	1	(D)	(D)	-	(D)
3639	Household appliances, n.e.c.	1	-	1	-	(D)	-	(D)	-
364	Lighting and wiring devices	17	13	3	1	97	23	(D)	(D)
3643	Current carrying devices	6	6	-	-	10	10	-	-
3644	Noncurrent carrying devices	11	7	3	1	87	13	(D)	(D)
37	Transportation equipment	126	60	37	29	(D)	105	312	(D)
371	Motor vehicles and equipment	43	17	14	12	779	(D)	(D)	636
3713	Truck and bus bodies	7	5	2	-	25	(D)	(D)	-
3715	Truck trailers	4	2	2	-	18	(D)	(D)	-
3717	Motor vehicles and parts	32	10	10	12	736	17	83	636
372	Aircraft and parts	48	16	17	15	(D)	(D)	(D)	926
3721	Aircraft	16	2	5	9	717	(D)	(D)	658
3722	Aircraft engines and parts	11	4	4	3	138	6	46	86
3723	Aircraft propellers and parts	1	1	-	-	(D)	(D)	-	-
3729	Aircraft equipment, n.e.c.	20	9	8	3	261	21	58	182
373	Ship and boat building	34	26	6	2	136	(D)	(D)	(D)
3731	Ship building and repairing	16	9	5	2	101	9	(D)	(D)
3732	Boat building and repairing	18	17	1	-	35	(D)	(D)	-
3791	Trailer coaches	1	1	-	-	(D)	(D)	-	-

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963—Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		FOUNDRY PATTERN SHOPS—Continued							
38	Instruments and related products	13	12	1	-	29	(D)	(D)	-
3811	Scientific instruments	5	5	-	-	6	6	-	-
382	Mechanical measuring devices	8	7	1	-	23	(D)	(D)	-
3821	Mechanical measuring devices	5	4	1	-	16	(D)	(D)	-
3822	Automatic temperature controls	3	3	-	-	7	7	-	-
		PLATE OR STRUCTURAL FABRICATION							
	Major groups 19 and 34 to 37, total	5,685	2,146	1,931	1,608	167,582	3,886	18,913	144,783
19	Ordnance and accessories	31	7	6	18	(D)	(D)	(D)	(D)
1911 and 1999	Guns, howitzers, and mortars and ordnance and accessories, n.e.c	9	4	1	4	428	(D)	(D)	405
192	Missiles and ammunition, n.e.c	15	3	5	7	2,521	(D)	(D)	(D)
1925	Complete guided missiles	9	1	3	5	2,311	(D)	(D)	2,276
1929	Ammunition, n.e.c	6	2	2	2	210	(D)	(D)	(D)
1931	Tanks and tank components	6	-	-	6	1,049	-	-	1,049
1951	Small arms, 30 mm. and under	1	-	-	1	(D)	-	-	(D)
34	Fabricated metal products	2,079	591	761	727	72,402	949	7,809	63,644
3411	Metal cans	8	1	1	6	771	(D)	(D)	(D)
3429	Hardware, n.e.c	35	21	14	-	142	31	111	-
343	Plumbing and heating, except electric	80	37	26	17	(D)	(D)	(D)	(D)
3431	Metal plumbing fixtures	5	-	2	3	219	-	(D)	(D)
3432	Plumbing fittings, brass goods	4	3	-	1	(D)	(D)	-	(D)
3433	Heating equipment, except electric	71	34	24	13	886	66	233	587
344	Structural metal products	1,705	414	635	656	61,130	654	6,563	53,913
3441	Fabricated structural steel	751	145	291	315	33,753	197	3,102	30,454
3442	Metal doors, sash, and trim	57	24	15	18	1,077	35	148	894
3443	Boiler shop products	511	97	188	226	19,486	141	1,974	17,371
3444	Sheet metal work	189	82	68	39	2,473	162	608	1,703
3446	Architectural metal work	103	44	43	16	1,646	90	434	1,122
3449	Miscellaneous metal work, n.e.c	94	22	30	42	2,695	29	297	2,369
345	Screw machine products, bolts, etc	13	10	2	1	(D)	(D)	(D)	(D)
3451	Screw machine products	8	7	1	-	30	(D)	(D)	-
3452	Bolts, nuts, rivets, and washers	5	3	1	1	(D)	(D)	(D)	(D)
3461	Metal stampings	48	35	7	6	291	46	61	184
3481	Fabricated wire products, n.e.c	14	7	5	2	203	14	(D)	(D)
349	Fabricated metal products, n.e.c	176	66	71	39	(D)	(D)	736	(D)
3491	Metal barrels, drums, and pails	12	-	10	2	256	-	(D)	(D)
3492	Safes and vaults	7	3	2	2	(D)	(D)	(D)	(D)
3493	Steel springs	1	1	-	-	(D)	(D)	-	-
3494	Valves and pipe fittings	44	18	12	14	817	36	132	649
3498	Fabricated pipe and fittings	23	8	13	2	185	18	(D)	(D)
3499	Fabricated metal products, n.e.c	89	36	34	19	7,243	53	372	6,818
35	Machinery, except electrical	2,738	1,238	924	576	47,343	2,298	8,691	36,354
351	Engines and turbines	26	5	5	16	2,803	10	(D)	(D)
3511	Steam engines and turbines	10	-	2	8	2,138	-	(D)	(D)
3519	Internal combustion engines	16	5	3	8	665	10	26	629
3522	Farm machinery and equipment	263	113	110	40	2,741	225	1,049	1,467
353	Construction and like equipment	682	224	222	236	20,541	448	2,262	17,831
3531	Construction machinery	213	55	61	97	10,793	116	619	10,058
3532	Mining machinery and equipment	56	21	17	18	1,236	27	165	1,044
3533	Oil field machinery	70	30	23	17	1,130	50	241	839
3534	Elevators and moving stairways	46	19	17	10	631	42	160	429
3535	Conveyors	161	52	59	50	3,549	102	556	2,891
3536	Hoists, cranes, and monorails	52	19	17	16	1,257	41	195	1,021
3537	Industrial trucks and tractors	84	28	28	28	1,945	70	326	1,549
354	Metalworking machinery	252	158	61	33	3,047	266	545	2,236
3541	Metal-cutting machine tools	50	31	15	4	429	67	148	214
3542	Metal-forming machine tools	40	20	11	9	825	38	101	686
3544	Special dies and tools	103	78	20	5	460	101	163	196
3545	Machine tool accessories	13	8	5	-	52	14	38	-
3548	Metalworking machinery, n.e.c	46	21	10	15	1,281	46	95	1,140
355	Special industry machinery	562	239	204	119	7,935	463	1,903	5,569
3551	Food products machinery	148	50	57	41	2,298	107	493	1,698
3552	Textile machinery	73	43	18	12	750	87	172	491
3553	Woodworking machinery	51	18	26	7	431	26	242	163

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963--Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		PLATE OR STRUCTURAL FABRICATION—Continued							
35	Machinery, except electrical—Continued								
355	Special industry machinery—Continued								
3554	Paper industries machinery	36	19	9	8	592	29	88	475
3555	Printing trades machinery	31	18	9	4	250	34	61	155
3559	Special industry machines, n.e.c.	223	91	85	47	3,614	180	847	2,587
356	General industrial machinery	343	153	119	71	(D)	(D)	(D)	(D)
3561	Pumps and compressors	84	37	29	18	1,327	67	277	983
3562	Ball and roller bearings	3	2	-	1	(D)	(D)	-	(D)
3564	Blowers and fans	44	11	19	14	917	26	198	693
3565	Industrial patterns	2	-	2	-	(D)	-	(D)	-
3566	Power transmission equipment	21	12	4	5	365	14	58	293
3567	Industrial furnaces and ovens	73	30	29	14	1,028	77	283	668
3569	General industry machines,n.e.c.	116	61	36	19	1,475	107	331	1,037
357	Office machines, n.e.c.	30	17	11	2	(D)	(D)	(D)	(D)
3571	Computing and related machines	9	7	-	2	58	(D)	-	(D)
3572	Typewriters	1	1	-	-	(D)	(D)	-	-
3576	Scales and balances	18	8	10	-	102	17	85	-
3579	Office machines, n.e.c.	2	1	1	-	(D)	(D)	(D)	-
358	Service industry machines	149	65	47	37	(D)	(D)	(D)	(D)
3581	Automatic vending machines	5	3	1	1	73	(D)	(D)	(D)
3582	Commercial laundry equipment	19	8	6	5	242	23	51	168
3585	Refrigeration machinery	77	34	25	18	1,666	64	221	1,381
3586	Measuring and dispensing pumps	3	1	1	1	(D)	(D)	(D)	(D)
3589	Service industry machines, n.e.c.	45	19	14	12	485	37	111	337
3599	Miscellaneous machinery	431	264	145	22	2,316	425	1,213	678
36	Electric machinery	300	121	92	87	(D)	236	889	(D)
361	Electric distribution products	62	15	19	28	3,733	30	170	3,533
3612	Transformers	19	-	5	14	2,220	-	46	2,174
3613	Switchgear and switchboards	43	15	14	14	1,513	30	124	1,359
362	Electric industrial apparatus	76	34	23	19	(D)	74	(D)	1,246
3621	Motors and generators	33	14	8	11	1,088	33	84	971
3622	Industrial controls	20	8	9	3	180	14	68	98
3623	Welding apparatus	22	12	5	5	255	27	51	177
3629	Electric industrial goods, n.e.c.	1	-	1	-	(D)	-	(D)	-
363	Household appliances	15	6	5	4	366	10	(D)	(D)
3631	Household cooking equipment	1	-	-	1	(D)	-	-	(D)
3632	Household refrigerators	2	1	-	1	(D)	(D)	-	(D)
3633	Household laundry equipment	2	1	-	1	(D)	(D)	-	(D)
3634	Electric housewares and fans	3	2	1	-	(D)	(D)	(D)	-
3639	Household appliances, n.e.c.	7	2	4	1	102	(D)	(D)	(D)
364	Lighting and wiring devices	43	18	18	7	(D)	(D)	(D)	196
3642	Lighting fixtures	33	16	13	4	260	29	122	109
3643	Current carrying devices	3	2	1	-	(D)	(D)	(D)	-
3644	Noncurrent carrying devices	7	-	4	3	126	-	39	87
366	Communication equipment	67	25	19	23	1,887	42	216	1,629
3661	Telephone; telegraph apparatus	14	-	6	8	715	-	78	637
3662	Radio, TV communications equipment	53	25	13	15	1,172	42	138	992
367	Electronic components	34	21	9	4	(D)	(D)	(D)	(D)
3673	Electron tubes, transmitting	3	1	1	1	49	(D)	(D)	(D)
3674	Semiconductors	3	1	1	1	(D)	(D)	(D)	(D)
3679	Electronic components, n.e.c.	28	19	7	2	161	43	(D)	(D)
3693	X-ray apparatus and tubes	4	2	-	2	(D)	(D)	-	(D)
37	Transportation equipment	537	189	148	200	(D)	(D)	(D)	(D)
371	Motor vehicles and equipment	197	84	69	44	4,679	165	672	3,842
3713	Truck and bus bodies	75	46	22	7	514	85	207	222
3715	Truck trailers	52	16	21	15	924	34	213	677
3717	Motor vehicles and parts	70	22	26	22	3,241	46	252	2,943
372	Aircraft and parts	127	34	35	58	(D)	(D)	358	11,528
3721	Aircraft	38	7	9	22	9,129	19	95	9,015
3722	Aircraft engines and parts	25	6	6	13	1,078	10	61	1,007
3723	Aircraft propellers and parts	1	1	-	-	(D)	(D)	-	-
3729	Aircraft equipment, n.e.c.	63	20	20	23	1,744	36	202	1,506
373	Ship and boat building	155	56	32	67	13,768	116	338	13,314
3731	Ship building and repairing	107	25	20	62	13,403	45	225	13,133
3732	Boat building and repairing	48	31	12	5	365	71	113	181

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963—Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		PLATE OR STRUCTURAL FABRICATION—Continued							
37	Transportation equipment—Continued								
374	Railroad equipment	38	4	4	30	4,814	(D)	33	(D)
3741	Locomotives and parts	5	1	-	4	1,581	(D)	-	(D)
3742	Railroad and street cars	33	3	4	26	3,233	2	33	3,198
3791	Trailer coaches	20	11	8	1	133	30	(D)	(D)
		STAMPING, BLANKING, AND FORMING OF METAL							
	Major groups 19 and 34 to 38, total	11,115	4,872	3,566	2,678	299,422	8,479	34,696	256,247
19	Ordnance and accessories	70	23	18	29	(D)	(D)	(D)	(D)
1911 and 1999	Guns, howitzers, and mortars and ordnance and accessories, n.e.c	16	8	4	4	441	18	40	383
192	Missiles and ammunition, ne.c	27	6	6	15	1,288	(D)	(D)	1,217
1925	Complete guided missiles	13	1	4	8	535	(D)	(D)	491
1929	Ammunition, n.e.c	14	5	2	7	753	(D)	(D)	726
1931	Tanks and tank components	3	-	1	2	(D)	-	(D)	(D)
1951	Small arms, 30 mm. and under	14	7	4	3	248	10	29	209
1961	Small arms ammunition	10	2	3	5	578	(D)	(D)	538
34	Fabricated metal products	4,681	1,734	1,669	1,278	138,309	(D)	16,462	(D)
3411	Metal cans	131	20	35	76	11,673	44	346	11,283
342	Cutlery, hand tools, hardware	600	258	221	121	22,154	440	2,098	19,616
3421	Cutlery	61	35	21	5	684	62	160	462
3423	Hand and edge tools	162	83	60	19	1,893	148	529	1,216
3425	Hand saws and saw blades	27	16	7	4	441	30	65	346
3429	Hardware, n.e.c	350	124	133	93	19,136	200	1,344	17,592
343	Plumbing and heating, except electric	232	71	71	90	5,487	(D)	(D)	4,605
3431	Metal plumbing fixtures	18	1	9	8	560	(D)	(D)	463
3432	Plumbing fittings, brass goods	31	14	9	8	426	31	81	314
3433	Heating equipment, except electric	183	56	53	74	4,501	113	560	3,828
344	Structural metal products	1,343	602	451	290	20,419	1,050	4,238	15,131
3441	Fabricated structural steel	154	94	43	17	1,146	179	395	572
3442	Metal doors, sash, and trim	207	99	49	59	4,531	163	500	3,868
3443	Boiler shop products	214	113	74	27	3,006	220	647	2,139
3444	Sheet metal work	619	233	243	143	8,879	390	2,286	6,203
3446	Architectural metal work	74	40	25	9	670	63	238	369
3449	Miscellaneous metal work, n.e.c	75	23	17	35	2,187	35	172	1,980
345	Screw machine products, bolts, etc	203	101	59	43	3,851	136	(D)	(D)
3451	Screw machine products	73	57	14	2	268	71	(D)	(D)
3452	Bolts, nuts, rivets, and washers	130	44	45	41	3,583	65	447	3,071
3461	Metal stampings[7]	1,328	305	544	479	41,926	428	5,771	35,727
3481	Fabricated wire products, n.e.c	310	144	102	64	4,881	280	986	3,615
349	Fabricated metal products, n.e.c	534	233	186	115	27,918	(D)	(D)	(D)
3491	Metal barrels, drums, and pails	76	18	25	33	2,205	42	226	1,937
3492	Safes and vaults	9	3	3	3	167	9	(D)	(D)
3493	Steel springs	30	13	8	9	650	25	71	554
3494	Valves and pipe fittings	79	51	17	11	733	97	145	491
3496	Collapsible tubes	17	5	5	7	450	17	37	396
3497	Metal foil and leaf	10	2	4	4	401	(D)	(D)	351
3498	Fabricated pipe and fittings	36	16	14	6	450	27	120	303
3499	Fabricated metal products, n.e.c	277	125	110	42	22,862	237	1,054	21,571
35	Machinery, except electrical	3,226	1,857	900	469	(D)	3,045	8,456	(D)
351	Engines and turbines	32	7	9	16	1,268	11	(D)	(D)
3511	Steam engines and turbines	4	-	1	3	207	-	(D)	(D)
3519	Internal combustion engines	28	7	8	13	1,061	11	105	945
3522	Farm machinery and equipment	437	204	158	75	6,484	375	1,545	4,564
353	Construction and like equipment	401	227	114	60	5,045	(D)	1,009	(D)
3531	Construction machinery	114	59	33	22	2,570	102	287	2,181
3532	Mining machinery and equipment	25	19	2	4	224	(D)	(D)	172
3533	Oil field machinery	38	25	11	2	158	34	(D)	(D)
3534	Elevators and moving stairways	34	19	12	3	390	31	(D)	(D)
3535	Conveyors	99	55	25	19	867	106	235	526
3536	Hoists, cranes, and monorails	20	12	5	3	151	17	42	92
3537	Industrial trucks and tractors	71	38	26	7	685	65	239	381

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963--Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		STAMPING, BLANKING, AND FORMING OF METAL—Continued							
35	Machinery, except electrical—Continued								
354	Metalworking machinery	625	472	123	30	3,160	(D)	1,066	(D)
3541	Metal-cutting machine tools	38	28	8	2	163	39	(D)	(D)
3542	Metal-forming machine tools	38	26	11	1	170	31	(D)	(D)
3544	Special dies and tools	458	351	91	16	1,999	513	764	722
3545	Machine tool accessories	49	33	11	5	484	51	107	326
3548	Metalworking machinery, n.e.c	42	34	2	6	344	(D)	(D)	278
355	Special industry machinery	378	216	119	43	(D)	(D)	(D)	(D)
3551	Food products machinery	126	76	42	8	733	161	360	212
3552	Textile machinery	93	49	26	18	1,209	86	251	872
3553	Woodworking machinery	31	18	12	1	212	27	(D)	(D)
3554	Paper industries machinery	2	2	-	-	(D)	(D)	-	-
3555	Printing trades machinery	25	17	5	3	323	33	38	252
3559	Special industry machines, n.e.c	101	54	34	13	957	96	324	537
356	General industrial machinery	395	197	121	77	5,173	(D)	(D)	3,647
3561	Pumps and compressors	67	45	17	5	394	74	164	156
3562	Ball and roller bearings	51	14	20	17	1,278	32	220	1,026
3564	Blowers and fans	68	24	25	19	1,097	48	239	810
3565	Industrial patterns	3	1	2	-	17	(D)	(D)	-
3566	Power transmission equipment	60	30	11	19	1,195	54	108	1,033
3567	Industrial furnaces and ovens	58	29	21	8	495	62	191	242
3569	General industry machines, n.e.c	88	54	25	9	697	75	242	380
357	Office machines, n.e.c	123	52	34	37	3,331	95	363	2,873
3571	Computing and related machines	50	22	9	19	1,680	36	98	1,546
3572	Typewriters	11	-	4	7	987	-	41	946
3576	Scales and balances	17	9	5	3	171	15	55	101
3579	Office machines, n.e.c	45	21	16	8	493	44	169	280
358	Service industry machines	391	154	123	114	7,808	274	1,217	6,317
3581	Automatic vending machines	47	10	20	17	1,246	19	225	1,002
3582	Commercial laundry equipment	29	11	13	5	319	18	118	183
3585	Refrigeration machinery	220	90	59	71	5,046	157	608	4,281
3586	Measuring and dispensing pumps	15	3	4	8	366	6	44	316
3589	Service industry machines, n.e.c	80	40	27	13	831	74	222	535
3599	Miscellaneous machinery	444	328	99	17	2,035	458	885	692
36	Electrical machinery	1,836	741	590	505	40,845	1,434	(D)	(D)
361	Electric distribution products	283	106	97	80	5,788	219	955	4,614
3611	Electric measuring instruments	88	50	25	13	896	88	266	542
3612	Trasnformers	55	16	19	20	1,682	31	199	1,452
3613	Switchgear and switchboards	140	40	53	47	3,210	100	490	2,620
362	Electric industrial apparatus	266	120	88	58	4,544	231	(D)	(D)
3621	Motors and generators	129	43	45	41	2,504	91	486	1,927
3622	Industrial controls	69	36	23	10	1,474	61	170	1,243
3623	Electric welding apparatus	22	16	3	3	194	31	35	128
3624	Carbon and graphite products	8	5	2	1	107	10	(D)	(D)
3629	Electric industrial goods, n.e.c	38	20	15	3	265	38	115	112
363	Household appliances	216	48	51	117	10,864	(D)	(D)	(D)
3631	Household cooking equipment	35	1	7	27	2,023	(D)	(D)	1,939
3632	Household refrigerators	22	1	4	17	3,272	(D)	(D)	3,221
3633	Household laundry equipment	22	2	6	14	2,073	(D)	(D)	1,996
3634	Electric housewares and fans	75	22	14	39	2,156	42	163	1,951
3635	Household vacuum cleaners	10	4	2	4	233	(D)	(D)	217
3636	Sewing machines	7	5	1	1	48	7	(D)	(D)
3639	Household appliances, n.e.c	45	13	17	15	1,059	27	172	860
364	Lighting and wiring devices	451	180	156	115	7,763	(D)	(D)	5,876
3641	Electric lamps	4	2	2	-	28	(D)	(D)	-
3642	Lighting fixtures	283	115	105	63	4,366	209	1,054	3,103
3643	Current carrying devices	93	41	28	24	1,690	78	267	1,345
3644	Noncurrent carrying devices	71	22	21	28	1,679	36	215	1,428
3651	Radio and TV receiving sets	52	18	14	20	1,092	39	126	927
366	Communication equipment	224	104	69	51	5,154	192	719	4,243
3661	Telephone; telegraph apparatus	35	7	8	20	2,751	18	80	2,653
3662	Radio, TV communications equipment	189	97	61	31	2,403	174	639	1,590
367	Electronic components	247	122	80	45	3,403	(D)	(D)	(D)
3671	Electron tubes, receiving type	6	1	2	3	375	(D)	(D)	(D)
3672	Cathode ray picture tubes	3	-	1	2	167	-	(D)	(D)
3673	Electron tubes, transmitting	13	7	4	2	107	14	(D)	(D)
3674	Semiconductors	6	2	2	2	62	(D)	(D)	(D)
3679	Electronic components, n.e.c	219	112	71	36	2,692	235	662	1,795

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963--Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		STAMPING, BLANKING, AND FORMING OF METAL—Continued							
36	Electrical machinery—Continued								
369	Electrical products, n.e.c.	97	43	35	19	2,237	(D)	(D)	1,827
3691	Storage batteries	5	4	1	-	23	(D)	(D)	-
3692	Primary batteries, dry and wet	11	6	5	-	63	13	50	-
3693	X-ray apparatus and tubes	18	8	5	5	241	14	39	188
3694	Engine electrical equipment	40	15	16	9	1,509	28	138	1,343
3699	Electrical products, n.e.c.	23	10	8	5	401	13	92	296
37	Transportation equipment	1,034	363	315	356	(D)	(D)	(D)	(D)
371	Motor vehicles and equipment	571	171	167	233	60,706	343	1,643	58,720
3713	Truck and bus bodies	101	59	20	22	1,528	116	196	1,216
3715	Truck trailers	53	18	23	12	875	40	246	589
3717	Motor vehicles and parts	417	94	124	199	58,303	187	1,201	56,915
372	Aircraft and parts	262	105	88	69	(D)	(D)	(D)	(D)
3721	Aircraft	48	12	10	26	6,282	23	97	6,162
3722	Aircraft engines and parts	62	23	20	19	1,750	38	212	1,500
3723	Aircraft propellers and parts	3	1	1	1	(D)	(D)	(D)	(D)
3729	Aircraft equipment, n.e.c.	149	69	57	23	2,871	125	528	2,218
373	Ship and boat building	47	29	11	7	1,039	62	(D)	(D)
3731	Ship building and repairing	19	9	5	5	793	12	42	739
3732	Boat building and repairing	28	20	6	2	246	50	(D)	(D)
374	Railroad equipment	38	5	14	19	1,592	8	159	1,425
3741	Locomotives and parts	7	-	3	4	275	-	29	246
3742	Railroad and street cars	31	5	11	15	1,317	8	130	1,179
3751	Motorcycles, bicycles, and parts	24	5	6	13	871	7	66	798
379	Transportation equipment, n.e.c.	92	48	29	15	1,015	83	(D)	(D)
3791	Trailer coaches	34	17	15	2	443	29	(D)	(D)
3799	Transportation equipment, n.e.c.	58	31	14	13	572	54	113	405
38	Instruments and related products	268	153	74	41	3,616	280	706	2,630
3811	Scientific instruments	76	51	18	7	590	82	168	340
382	Mechanical measuring devices	140	84	36	20	1,946	172	357	1,417
3821	Mechanical measuring devices	102	68	24	10	1,065	138	222	705
3822	Automatic temperature controls	38	16	12	10	881	34	135	712
387	Watches, clocks, and watchcases	52	18	20	14	1,080	26	181	873
3871	Watches and clocks	34	13	10	11	868	20	99	749
3872	Watchcases	18	5	10	3	212	6	82	124
		PAINTING, LACQUERING AND ENAMELING							
	Major groups 19 and 34 to 38, total	10,588	7,914	1,901	773	86,628	12,416	(D)	(D)
19	Ordnance and accessories	74	38	19	17	(D)	71	143	(D)
1911 and 1999	Guns, howitzers, and mortars and ordnance and accessories, n.e.c.	17	11	5	1	106	20	(D)	(D)
192	Missiles and ammunition, n.e.c.	35	13	9	13	620	(D)	(D)	527
1925	Complete guided missiles	17	6	2	9	399	(D)	(D)	380
1929	Ammunition, n.e.c.	18	7	7	4	221	16	58	147
1931	Tanks and tank components	13	7	3	3	236	14	23	199
1951	Small arms, 30 mm. and under	8	6	2	-	21	(D)	(D)	-
1961	Small arms ammunition	1	1	-	-	(D)	(D)	-	-
34	Fabricated metal products,	3,348	2,508	629	211	20,235	3,943	5,617	10,675
3411	Metal cans	77	17	25	35	2,319	41	227	2,051
342	Cutlery, hand tools, hardware	417	315	81	21	2,360	(D)	(D)	(D)
3421	Cutlery	26	21	5	-	77	36	41	-
3423	Hand and edge tools	134	110	23	1	391	160	(D)	(D)
3425	Hand saws and saw blades	13	12	1	-	26	(D)	(D)	-
3429	Hardware, n.e.c.	244	172	52	20	1,866	275	460	1,131
343	Plumbing and heating, except electric	243	164	56	23	2,296	293	567	1,436
3431	Metal plumbing fixtures	21	6	6	9	1,068	8	63	997
3432	Plumbing fittings, brass goods	13	13	-	-	20	20	-	-
3433	Heating equipment, except electric	209	145	50	14	1,208	265	504	439

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963--Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		PAINTING, LACQUERING, AND ENAMELING—Continued							
34	Fabricated metal products—Continued								
344	Structural metal products	1,439	1,175	220	44	5,186	1,772	1,858	1,556
3441	Fabricated structural steel	422	329	80	13	1,654	505	662	487
3442	Metal doors, sash, and trim	172	139	24	9	744	218	232	294
3443	Boiler shop products	301	266	30	5	861	400	271	190
3444	Sheet metal work	302	240	54	8	1,063	336	422	305
3446	Architectural metal work	158	145	10	3	379	221	74	84
3449	Miscellaneous metal work, n.e.c	84	56	22	6	485	92	197	196
345	Screw machine products, bolts, etc	54	48	4	2	131	60	(D)	(D)
3451	Screw machine products	21	21	-	-	23	23	-	-
3452	Bolts, nuts, rivets, and washers	33	27	4	2	108	37	(D)	(D)
3461	Metal stampings	370	212	103	55	4,480	354	985	3,141
3481	Fabricated wire products, n.e.c	213	176	34	3	671	289	288	94
349	Fabricated metal products, n.e.c	535	401	106	28	2,792	(D)	958	(D)
3491	Metal barrels, drums, and pails	84	41	34	9	680	87	303	290
3492	Safes and vaults	10	8	1	1	50	(D)	(D)	(D)
3493	Steel springs	31	25	6	-	88	45	43	-
3494	Valves and pipe fittings	155	134	17	4	480	222	167	91
3496	Collapsible tubes	16	-	2	14	813	-	(D)	(D)
3497	Metal foil and leaf	5	1	4	-	39	(D)	(D)	-
3498	Fabricated pipe and fittings	31	27	4	-	67	42	25	-
3499	Fabricated metal products, n.e.c	203	165	38	-	575	232	343	-
35	Machinery, except electrical	3,920	3,221	562	137	14,942	(D)	(D)	(D)
351	Engines and turbines	67	34	25	8	537	49	(D)	(D)
3511	Steam engines and turbines	14	8	4	2	99	13	(D)	(D)
3519	Internal combustion engines	53	26	21	6	438	36	188	214
3522	Farm machinery and equipment	546	437	81	28	2,472	685	762	1,025
353	Construction and like equipment	782	640	111	31	3,086	1,011	(D)	(D)
3531	Construction machinery	255	188	43	24	1,617	333	356	928
3532	Mining machinery and equipment	63	54	6	3	178	76	33	69
3533	Oil field machinery	102	87	15	-	264	135	129	-
3534	Elevators and moving stairways	48	40	6	2	209	52	(D)	(D)
3535	Conveyors	153	139	14	-	320	212	108	-
3536	Hoists, cranes, and monorails	55	45	10	-	162	68	94	-
3537	Industrial trucks and tractors	106	87	17	2	336	135	(D)	(D)
354	Metalworking machinery	418	346	63	9	1,306	463	593	270
3541	Metal-cutting machine tools	149	101	44	4	663	148	410	105
3542	Metal-forming machine tools	56	50	6	-	125	67	58	-
3544	Special dies and tools	76	72	3	1	132	75	(D)	(D)
3545	Machine tool accessories	53	46	5	2	182	59	(D)	(D)
3548	Metalworking machinery, n.e.c	84	77	5	2	204	114	(D)	(D)
355	Special industry machinery	706	616	78	12	1,836	868	(D)	(D)
3551	Food products machinery	187	169	17	1	398	248	(D)	(D)
3552	Textile machinery	102	87	11	4	351	118	92	141
3553	Woodworking machinery	80	70	8	2	219	83	(D)	(D)
3554	Paper industries machinery	45	41	4	-	84	58	26	-
3555	Printing trades machinery	68	51	15	2	249	90	(D)	(D)
3559	Special industry machines, n.e.c	224	198	23	3	535	271	204	60
356	General industrial machinery	578	506	63	9	1,504	(D)	502	(D)
3561	Pumps and compressors	188	166	17	5	542	253	121	168
3562	Ball and roller bearings	11	9	2	-	25	(D)	(D)	-
3564	Blowers and fans	76	60	14	2	265	108	(D)	(D)
3565	Industrial patterns	9	9	-	-	19	19	-	-
3566	Power transmission equipment	71	63	8	-	150	91	59	-
3567	Industrial furnaces and ovens	66	55	9	2	207	95	(D)	(D)
3569	General industry machines, n.e.c	157	144	13	-	296	172	124	-
357	Office machines, n.e.c	108	67	29	12	952	(D)	287	(D)
3571	Computing and related machines	37	23	8	6	399	32	87	280
3572	Typewriters	9	2	3	4	230	(D)	(D)	189
3576	Scales and balances	29	22	6	1	136	44	(D)	(D)
3579	Office machines, n.e.c	33	20	12	1	187	32	(D)	(D)
358	Service industry machines	416	302	87	27	2,707	459	731	1,517
3581	Automatic vending machines	37	21	10	6	319	40	93	186
3582	Commercial laundry equipment	44	35	9	-	134	60	74	-
3585	Refrigeration machinery	226	156	49	21	1,944	225	388	1,331
3586	Measuring and dispensing pumps	20	9	11	-	119	13	106	-
3589	Service industry machines, n.e.c	89	81	8	-	191	121	70	-
3599	Miscellaneous machinery	299	273	25	1	542	332	(D)	(D)

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963--Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		PAINTING, LACQUERING, AND ENAMELING—Continued							
36	Electrical machinery	1,745	1,185	390	170	16,564	2,037	3,470	11,057
361	Electric distribution products	299	217	67	15	1,459	358	(D)	(D)
3611	Electric measuring instruments	90	68	20	2	340	99	(D)	(D)
3612	Transformers	70	46	15	9	511	79	153	279
3613	Switchgear and switchboards	139	103	32	4	608	180	281	147
362	Electric industrial apparatus	265	203	49	13	(D)	(D)	432	(D)
3621	Motors and generators	125	82	33	10	761	172	318	271
3622	Industrial controls	74	64	8	2	276	99	(D)	(D)
3623	Electric welding apparatus	30	28	2	-	67	(D)	(D)	-
3624	Carbon and graphite products	1	1	-	-	(D)	(D)	-	-
3629	Electric industrial goods, n.e.c	35	28	6	1	160	55	(D)	(D)
363	Household appliances	192	70	53	69	7,788	(D)	(D)	7,162
3631	Household cooking equipment	35	5	7	23	1,857	16	76	1,765
3632	Household refrigerators	24	4	6	14	2,930	12	78	2,840
3633	Household laundry equipment	19	3	4	12	1,768	(D)	(D)	1,734
3634	Electric housewares and fans	52	20	25	7	471	39	212	220
3635	Household vacuum cleaners	8	4	1	3	109	(D)	(D)	88
3636	Sewing machines	6	4	2	-	21	(D)	(D)	-
3639	Household appliances, n.e.c	48	30	8	10	632	48	69	515
364	Lighting and wiring devices	386	247	102	37	(D)	(D)	(D)	(D)
3641	Electric lamps	2	1	1	-	(D)	(D)	(D)	-
3642	Lighting fixtures	319	204	87	28	2,402	364	779	1,259
3643	Current carrying devices	25	19	4	2	136	31	(D)	(D)
3644	Noncurrent carrying devices	40	23	10	7	346	42	76	228
3651	Radio and TV receiving sets	37	21	14	2	242	48	(D)	(D)
366	Communication equipment	256	177	58	21	1,659	282	494	883
3661	Telephone; telegraph apparatus	29	11	13	5	381	21	110	250
3662	Radio, TV communications equipment	227	166	45	16	1,278	261	384	633
367	Electronic components	225	180	37	8	(D)	(D)	293	(D)
3671	Electron tubes, receiving type	6	3	3	-	29	4	25	-
3672	Cathode ray picture tubes	2	1	1	-	(D)	(D)	(D)	-
3673	Electron tubes, transmitting	17	14	2	1	68	27	(D)	(D)
3674	Semiconductors	14	9	4	1	61	17	(D)	(D)
3679	Electronic components, n.e.c	186	153	27	6	723	240	213	270
369	Electrical products, n.e.c	85	70	10	5	(D)	(D)	(D)	(D)
3691	Storage batteries	10	10	-	-	14	14	-	-
3692	Primary batteries, dry and wet	2	2	-	-	(D)	(D)	-	-
3693	X-ray apparatus and tubes	20	14	3	3	161	28	43	90
3694	Engine electrical equipment	31	28	2	1	86	48	(D)	(D)
3699	Electrical products, n.e.c	22	16	5	1	98	28	(D)	(D)
37	Transportation equipment	1,250	765	262	223	(D)	(D)	(D)	(D)
371	Motor vehicles and equipment	649	395	134	120	23,124	707	978	21,439
3713	Truck and bus bodies	174	127	34	13	1,086	237	265	584
3715	Truck trailers	73	52	14	7	471	106	111	254
3717	Motor vehicles and parts	402	216	86	100	21,567	364	602	20,601
372	Aircraft and parts	258	156	55	47	(D)	(D)	520	(D)
3721	Aircraft	50	14	8	28	2,768	29	87	2,652
3722	Aircraft engines and parts	51	30	14	7	452	50	128	274
3723	Aircraft propellers and parts	4	2	-	2	(D)	(D)	-	(D)
3729	Aircraft equipment, n.e.c	153	110	33	10	1,035	184	305	546
373	Ship and boat building	149	82	37	30	2,742	147	351	2,244
3731	Ship building and repairing	78	28	24	26	2,413	44	232	2,137
3732	Boat building and repairing	71	54	13	4	329	103	119	107
374	Railroad equipment	44	19	7	18	1,500	30	72	1,398
3741	Locomotives and parts	7	4	-	3	170	5	-	165
3742	Railroad and street cars	37	15	7	15	1,330	25	72	1,233
3751	Motorcycles, bicycles, and parts	26	11	9	6	482	21	93	368
379	Transportation equipment, n.e.c	124	102	20	2	621	161	(D)	(D)
3791	Trailer coaches	43	35	7	1	378	60	(D)	(D)
3799	Transportation equipment, n.e.c	81	67	13	1	243	101	(D)	(D)
38	Instruments and related products	251	197	39	15	1,045	300	341	404
3811	Scientific instruments	98	81	13	4	333	120	113	100
382	Mechanical measuring devices	153	116	26	11	712	180	228	304
3821	Meahanical measuring devices	127	100	21	6	486	145	179	162
3822	Automatic temperature controls	26	16	5	5	226	35	49	142

See footnotes at end of table.

TABLE 1A. Selected Metalworking Operations by Industry: 1963--Continued

Code	Metalworking operations	Number of establishments				Employment in the specified operation			
		Total	Number of production workers[1]			Total	Number of production workers[1]		
			1 to 4	5 to 19	20 or more		1 to 4	5 to 19	20 or more
		PLASTICS MOLDING							
	Major groups 19 and 35 to 38, total...	594	268	167	159	12,912	521	1,582	10,809
19	Ordnance and accessories.....	10	3	-	7	807	8	-	799
1925	Complete guided missiles.....	10	3	-	7	807	8	-	799
35	Machinery, except electrical.....	23	8	7	8	425	(D)	(D)	(D)
357	Office machines, n.e.c.....	23	8	7	8	425	(D)	(D)	(D)
3571	Computing and related machines.....	10	4	3	3	180	8	41	131
3572	Typewriters.....	7	-	3	4	200	-	23	177
3579	Office machines, n.e.c.....	6	4	1	1	45	(D)	(D)	(D)
36	Electrical machinery.....	340	167	99	74	6,188	324	957	4,907
361	Electric distribution products.....	59	29	17	13	923	59	180	684
3611	Electric measuring instruments.....	29	17	7	5	271	33	68	170
3613	Switchgear and switchboards.....	30	12	10	8	652	26	112	514
3622	Industrial controls.....	11	7	-	4	295	13	-	282
363	Household appliances.....	32	9	9	14	(D)	(D)	(D)	(D)
3633	Household laundry equipment.....	3	-	1	2	103	-	(D)	(D)
3634	Electric housewares and fans.....	20	4	7	9	509	11	82	416
3635	Household vacuum cleaners.....	3	1	-	2	(D)	(D)	-	(D)
3636	Sewing machines.....	1	1	-	-	(D)	(D)	-	-
3639	Household appliances, n.e.c.....	5	3	1	1	(D)	(D)	(D)	(D)
364	Lighting and wiring devices.....	45	16	16	13	915	43	161	711
3643	Current carrying devices.....	37	11	13	13	865	23	131	711
3644	Noncurrent carrying devices.....	8	5	3	-	50	20	30	-
366	Communication equipment.....	56	25	16	15	1,646	42	149	1,455
3661	Telephone; telegraph apparatus.....	12	-	3	9	1,273	-	35	1,238
3662	Radio, TV communications equipment.....	44	25	13	6	373	42	114	217
367	Electronic components.....	137	81	41	15	(D)	(D)	(D)	(D)
3672	Cathode ray picture tubes.....	1	-	1	-	(D)	-	(D)	-
3673	Electron tubes, transmitting.....	3	3	-	-	6	6	-	-
3674	Semiconductors.....	6	4	1	1	40	(D)	(D)	(D)
3679	Electronic components, n.e.c.....	127	74	39	14	1,607	138	363	1,106
37	Transportation equipment.....	183	67	56	60	(D)	(D)	(D)	(D)
371	Motor vehicles and equipment.....	40	19	15	6	(D)	(D)	119	(D)
3713	Truck and bus bodies.....	9	6	3	-	45	16	29	-
3715	Truck trailers.....	5	4	-	1	(D)	(D)	-	(D)
3717	Motor vehicles and parts.....	26	9	12	5	502	21	90	391
372	Aircraft and parts.....	88	32	18	38	(D)	68	(D)	(D)
3721	Aircraft.....	31	7	5	19	1,859	16	59	1,784
3722	Aircraft engines and parts.....	17	5	4	8	675	10	35	630
3723	Aircraft propellers and parts.....	3	-	2	1	(D)	-	(D)	(D)
3729	Aircraft equipment, n.e.c.....	37	20	7	10	699	42	58	599
373	Ship and boat building.....	55	16	23	16	1,037	(D)	(D)	(D)
3731	Ship building and repairing.....	6	1	4	1	45	(D)	(D)	(D)
3732	Boat building and repairing.....	49	15	19	15	992	30	193	769
38	Instruments and related products.....	38	23	5	10	(D)	(D)	(D)	(D)
3811	Scientific instruments.....	11	9	-	2	(D)	(D)	-	(D)
382	Mechanical measuring devices.....	27	14	5	8	423	(D)	(D)	355
2821	Mechanical measuring devices.....	19	12	2	5	163	(D)	(D)	133
3822	Automatic temperature controls.....	8	2	3	3	260	(D)	(D)	222

Footnotes on next page.

TABLE 1A. Selected Metalworking Operations by Industry: 1963--Continued

Footnotes for table 1A.—Selected Metalworking Operations

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

[1]These size groups are based on the number of production workers in the specified operation. They are not based on total employment of the establishments.

[2]Excludes data for establishments which are primarily engaged in the manufacture and sale of rough castings, including die castings. In 1963, the number of establishments classified in each of the commercial foundry industries was as follows: industry 3321, Gray Iron Foundries, 1,139; industry 3322, Malleable Iron Foundries, 81; industry 3323, Steel Foundries, 267; industry 3361, Aluminum Castings, 954; industry 3362, Brass, Bronze, Copper Castings, 549; and industry 3369, Nonferrous Castings, N.E.C., 391. See appropriate industry reports in 1963 Census of Manufactures Volume II, "Industry Statistics," for detailed statistics for these industries and those listed in footnotes 3, 4, and 5.

[3]Excludes data for establishments which are primarily engaged in the manufacture and sale of unmachined forgings. In 1963 the number of establishments classified as forge shops was as follows: industry 3391, Iron and Steel Forgings, 272; and industry 3392, Nonferrous Forgings, 34. Also excluded from these statistics are data of forging operations used in the manufacture of bolts, nuts, and other related products.

[4]Excludes data for the 3,023 establishments classified in industry 3471, Plating and Polishing. These establishments usually are engaged in work on materials owned by others and generally perform electroplating operations.

[5]Excludes data for those establishments classified in industry 3479, Metal Coating, Engraving, Etc., which are primarily engaged in galvanizing and other hot dip coating, usually on materials owned by others.

[6]Since industry 3451 is composed of establishments primarily engaged in producing screw machine products, all establishments classified in the industry should have reported automatic screw machine department operations. However, only 860 of the 1,874 establishments classified in the industry reported such operations; 54 establishments reported no metalworking operations; and the remainder of the establishments in the industry, consisting mainly of small plants with fewer than 10 employees, reported on "short-form" schedules which did not include a metalworking operations inquiry.

[7]Since industry 3461 is composed of establishments primarily engaged in producing metal stampings, all establishments classified in the industry should have reported stamping, blanking, and forming operations. However, only 1,328 of the 2,574 establishments classified in the industry reported such operations; 93 establishments reported no metalworking operations; and the remainder, consisting mainly of small plants with fewer than 10 employees, reported on "short-form" schedules which did not include a metalworking operations inquiry.

TABLE 1B. Coverage of Selected Metalworking Operations by Industries: 1963

Code	Industry	Establishments, number	Establishments which completed the metalworking inquiry				
			Establishments which reported one or more of the specified operations		Establishments which reported "none" of the operations apply		Percent of total production workers
			Number	Percent of total production workers	Number	Percent of total production workers	
1911 and 1999	Guns, howitzers, and mortars and ordnance and accessories, n.e.c.	60	30	50-55	5	0-5	50-55
1925	Complete guided missiles	31	23	90-95	7	0-5	95-100
1929	Ammunition, n.e.c.	44	28	75-80	4	0-5	75-80
1931	Tanks and tank components	26	18	95-100	-	-	95-100
1951	Small arms, 30 mm. and under	52	25	95-100	-	-	95-100
1961	Small arms ammunition	31	10	95-100	2	0-5	95-100
3321	Gray iron foundries	1,139	438	65-70	334	20-25	90-95
3322	Malleable iron foundries	81	56	85-90	15	10-15	95-100
3323	Steel foundries	267	150	80-85	70	10-15	90-95
3361	Aluminum castings	954	238	55-60	229	20-25	80-85
3362	Brass, bronze, copper castings	549	171	60-65	160	20-25	80-85
3369	Nonferrous castings, n.e.c.	391	93	45-50	98	25-30	75-80
3391	Iron and steel forgings	272	156	80-85	39	0-5	85-90
3392	Nonferrous forgings	34	20	95-100	10	0-5	95-100
3411	Metal cans	270	184	85-90	49	10-15	95-100
3421	Cutlery	161	79	85-90	10	0-5	90-95
3423	Hand and edge tools	716	303	80-85	35	0-5	80-85
3425	Hand saws and saw blades	76	39	80-85	5	0-5	85-90
3429	Hardware, n.e.c.	1,070	514	85-90	53	0-5	90-95
3431	Metal plumbing fixtures	81	34	85-90	5	0-5	85-90
3432	Plumbing fittings, brass goods	250	115	80-85	12	0-5	85-90
3433	Heating equipment, except electric	648	305	75-80	-	-	75-80
3441	Fabricated structural steel	1,718	866	70-75	250	0-5	75-80
3442	Metal doors, sash, and trim	1,817	362	45-50	634	10-15	60-65
3443	Boiler shop products	1,383	637	70-75	194	0-5	75-80
3444	Sheet metal work	3,250	811	50-55	710	10-15	60-65
3446	Architectural metal work	1,334	226	60-65	157	15-20	75-80
3449	Miscellaneous metal work, n.e.c.	697	169	60-65	134	10-15	70-75
3451	Screw machine products	1,874	956	80-85	54	0-5	85-90
3452	Bolts, nuts, rivets and washers	573	317	75-80	62	5-10	80-85
3461	Metal stampings	2,574	1,442	80-85	93	0-5	80-85
3481	Fabricated wire products, n.e.c.	1,567	487	60-65	176	5-10	70-75
3491	Metal barrels, drum, and pails	145	94	80-85	9	0-5	85-90
3492	Safes and vaults	32	13	90-95	-	-	90-95
3493	Steel springs	96	52	85-90	7	0-5	85-90
3494	Valves and pipe fittings	646	414	90-95	33	0-5	95-100
3496	Collapsible tubes	24	17	95-100	1	0-5	95-100
3497	Metal foil and leaf	67	17	45-50	17	15-20	60-65
3498	Fabricated pipe and fittings	349	112	60-65	67	15-20	75-80
3499	Fabricated metal products, n.e.c.	1,277	435	50-55	67	0-5	50-55
3511	Steam engines and turbines	22	20	90-95	1	0-5	95-100
3519	Internal combustion engines	143	95	90-95	-	-	90-95
3522	Farm machinery and equipment	1,568	711	85-90	23	0-5	90-95
3531	Construction machinery	617	353	90-95	14	0-5	90-95
3532	Mining machinery and equipment	204	114	85-90	7	0-5	85-90
3533	Oil field machinery	408	217	80-85	14	0-5	80-85
3534	Elevators and moving stairways	142	84	80-85	6	0-5	80-85
3535	Conveyors	454	242	85-90	13	0-5	90-95
3536	Hoists, cranes, and monorails	120	74	95-100	4	0-5	95-100
3537	Industrial trucks and tractors	314	142	85-90	12	0-5	90-95
3541	Metal-cutting machine tools	801	390	90-95	26	0-5	95-100
3542	Metal-forming machine tools	366	195	85-90	6	0-5	85-90
3544	Special dies and tools	5,896	2,603	75-80	191	0-5	75-80
3545	Machine tool accessories	1,038	435	80-85	79	5-10	85-90
3548	Metalworking machinery, n.e.c.	435	212	85-90	18	0-5	90-95
3551	Food products machinery	681	353	80-85	14	0-5	80-85
3552	Textile machinery	561	261	80-85	43	0-5	80-85
3553	Woodworking machinery	249	143	90-95	5	0-5	90-95
3554	Paper industries machinery	217	125	90-95	10	0-5	95-100
3555	Printing trades machinery	490	162	80-85	54	0-5	85-90
3559	Special industry machines, n.e.c.	1,091	536	85-90	31	0-5	85-90
3561	Pumps and compressors	642	334	80-85	56	0-5	80-85
3562	Ball and roller bearings	125	99	95-100	6	0-5	95-100
3564	Blowers and fans	237	106	80-85	-	-	80-85
3565	Industrial patterns	1,209	449	60-65	100	10-15	75-80
3566	Power transmission equipment	532	316	85-90	56	0-5	85-90
3567	Industrial furnaces and ovens	239	121	80-85	17	5-10	90-95
3569	General industry machines, n.e.c.	778	348	65-70	68	0-5	70-75
3571	Computing and related machines	248	137	95-100	15	0-5	95-100
3572	Typewriters	21	15	95-100	3	0-5	95-100
3576	Scales and balances	85	45	80-85	1	0-5	80-85
3579	Office machines, n.e.c.	161	73	75-80	3	0-5	80-85

See footnotes at end of table

TABLE 1B. Coverage of Selected Metalworking Operations by Industries: 1963--Continued

Code	Industry	Establishments, number	Establishments which completed the metalworking inquiry				
			Establishments which reported one or more of the specified operations		Establishments which reported "none" of the operations apply		Percent of total production workers
			Number	Percent of total production workers	Number	Percent of total production workers	
3581	Automatic vending machines	158	61	85-90	10	0-5	85-90
3582	Commercial laundry equipment	115	57	85-90	5	0-5	85-90
3585	Refrigeration machinery	698	351	90-95	33	0-5	90-95
3586	Measuring and dispensing pumps	43	32	95-100	1	0-5	95-100
3589	Service industry machines, n.e.c	506	182	75-80	29	0-5	80-85
3599	Miscellaneous machinery	12,090	3,834	70-75	251	0-5	70-75
3611	Electric measuring instruments	560	200	85-90	28	0-5	85-90
3612	Transformers	177	82	80-85	27	0-5	85-90
3613	Switchgear and switchboards	400	213	85-90	39	0-5	90-95
3621	Motors and generators	384	222	95-100	24	0-5	95-100
3622	Industrial controls	339	189	60-65	36	0-5	60-65
3623	Electric welding apparatus	149	68	75-80	21	10-15	85-90
3624	Carbon and graphite products	53	26	75-80	16	20-25	95-100
3629	Electric industrial goods, n.e.c	231	80	60-65	40	20-25	85-90
3631	Household cooking equipment	83	47	80-85	-	-	80-85
3632	Household refrigerators	34	24	90-95	-	-	90-95
3633	Household laundry equipment	39	29	95-100	1	0-5	95-100
3634	Electric housewares and fans	312	122	80-85	-	-	80-85
3635	Household vacuum cleaners	34	16	90-95	-	-	90-95
3636	Sewing machines	86	26	85-90	-	-	85-90
3639	Household appliances, n.e.c	112	68	80-85	-	-	80-85
3641	Electric lamps	81	19	55-60	34	40-45	95-100
3642	Lighting fixtures	1,239	433	70-75	162	5-10	80-85
3643	Current carrying devices	449	200	85-90	-	-	85-90
3644	Noncurrent carrying devices	182	129	90-95	-	-	90-95
3651	Radio and TV receiving sets	348	167	85-90	15	0-5	85-90
3661	Telephone; telegraph apparatus	90	54	95-100	2	0-5	95-100
3662	Radio, TV communications equipment	1,132	634	80-85	68	0-5	85-90
3671	Electron tubes, receiving type	42	23	95-100	19	0-5	95-100
3672	Cathode ray picture tubes	151	20	85-90	16	0-5	90-95
3673	Electron tubes, transmitting	57	41	90-95	4	0-5	90-95
3674	Semiconductors	107	87	95-100	20	0-5	95-100
3679	Electron components, n.e.c	1,934	779	80-85	157	0-5	85-90
3691	Storage batteries	252	43	40-45	75	25-30	65-70
3692	Primary batteries, dry and wet	46	17	45-50	18	35-40	85-90
3693	X-ray apparatus and tubes	58	32	85-90	6	0-5	90-95
3694	Engine electrical equipment	182	72	85-90	36	0-5	90-95
3699	Electrical products, n.e.c	350	45	45-50	66	30-35	75-80
3713	Truck and bus bodies	610	216	70-75	57	5-10	75-80
3715	Truck trailers	197	95	80-85	30	0-5	85-90
3717	Motor vehicles and parts	1,958	830	85-90	136	0-5	90-95
3721	Aircraft	100	65	90-95	16	0-5	90-95
3722	Aircraft engines and parts	232	195	95-100	18	0-5	95-100
3723	Aircraft propellers and parts	14	9	95-100	-	-	95-100
3729	Aircraft equipment, n.e.c	1,000	542	90-95	32	0-5	90-95
3731	Ship building and repairing	334	175	85-90	48	0-5	90-95
3732	Boat building and repairing	1,626	233	50-55	139	10-15	65-70
3741	Locomotives and parts	24	17	95-100	-	-	95-100
3742	Railroad and street cars	78	52	95-100	6	0-5	95-100
3751	Motorcycles, bicycles, and parts	88	33	90-95	4	0-5	90-95
3791	Trailer coaches	413	147	60-65	80	20-25	80-85
3799	Transportation equipment, n.e.c	522	117	50-55	24	5-10	60-65
3811	Scientific instruments	594	244	75-80	43	5-10	80-85
3821	Mechanical measuring devices	670	291	90-95	39	0-5	95-100
3822	Automatic temperature controls	104	58	95-100	8	0-5	95-100
3871	Watches and clocks	167	45	80-85	20	0-5	85-90
3872	Watchcases	53	21	75-80	3	0-5	75-80

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.

TABLE 2A. Selected Metalworking Operations by Divisions and States: 1963

Division and State	Foundry (iron or steel)		Ferrous foundry industries (SIC 3321, 3322, and 3323)[1]		Foundry (nonferrous, except die castings)		Nonferrous die casting		Nonferrous foundries (SIC 3361, 3362, and 3369)[1]	
	Establishments	Production workers	Establishments	Production workers	Establishments	Production workers	Establishments	Production workers	Establishments	Production workers
United States, total....	568	40,985	1,487	170,699	614	11,275	420	7,821	1,894	58,426
New England.....	52	3,176	107	5,899	55	827	26	256	169	3,552
Maine.....	4	(D)	5	(D)	-	-	-	-	3	(D)
New Hampshire.....	3	(D)	7	437	3	(D)	1	(D)	3	(D)
Vermont.....	5	(D)	8	(D)	1	(D)	-	-	6	(D)
Massachusetts.....	22	(D)	48	2,788	28	216	11	88	76	1,391
Rhode Island.....	1	(D)	11	(D)	5	(D)	2	(D)	21	207
Connecticut.....	16	882	28	2,048	18	461	12	145	62	1,594
Middle Atlantic.....	111	8,026	276	29,218	109	2,535	98	1,217	401	13,342
New York.....	34	1,876	68	6,184	43	773	56	621	163	5,137
New Jersey.....	18	770	44	4,283	19	270	19	421	99	3,130
Pennsylvania.....	59	5,380	164	18,751	47	1,492	23	175	139	5,075
East North Central.....	182	17,810	540	89,011	215	4,716	155	4,688	689	27,380
Ohio.....	61	3,722	158	24,744	71	1,969	29	657	207	8,838
Indiana.....	25	2,687	73	11,058	35	934	25	786	56	2,874
Illinois.....	32	3,696	107	15,349	42	796	40	1,103	193	6,460
Michigan.....	29	4,219	120	26,128	45	590	46	1,577	165	6,094
Wisconsin.....	35	3,486	82	11,732	22	427	15	565	68	3,114
West North Central.....	58	3,046	121	8,557	40	556	28	433	118	3,618
Minnesota.....	13	356	29	(D)	11	131	6	135	31	1,081
Iowa.....	19	1,983	30	2,256	10	161	7	43	23	(D)
Missouri.....	12	247	37	3,659	7	216	8	241	46	1,538
North Dakota.....	2	(D)	1	(D)	2	(D)	-	-	-	-
South Dakota.....	1	(D)	1	(D)	-	-	-	-	-	-
Nebraska.....	4	(D)	4	(D)	3	(D)	3	(D)	7	(D)
Kansas.....	7	218	19	1,357	7	41	4	(D)	11	183
South Atlantic.....	44	1,815	107	7,243	45	781	23	269	80	1,093
Delaware.....	-	-	2	(D)	1	(D)	1	(D)	3	(D)
Maryland.....	4	(D)	8	657	1	(D)	3	(D)	7	181
District of Columbia.....	-	-	-	-	-	-	1	(D)	-	-
Virginia.....	6	238	26	(D)	8	90	4	(D)	4	(D)
West Virginia.....	3	(D)	12	(D)	5	(D)	1	(D)	7	119
North Carolina.....	10	220	23	(D)	13	91	6	62	11	124
South Carolina.....	9	318	3	(D)	5	(D)	1	(D)	6	90
Georgia.....	10	335	18	638	5	(D)	1	(D)	15	162
Florida.....	2	27	15	(D)	7	55	5	(D)	27	276
East South Central.....	42	4,632	84	13,647	27	507	19	(D)	33	(D)
Kentucky.....	8	(D)	8	260	6	(D)	4	(D)	5	(D)
Tennessee.....	15	1,570	25	3,080	10	139	12	93	17	142
Alabama.....	16	1,456	47	10,189	8	174	1	(D)	8	(D)
Mississippi.....	3	(D)	4	118	3	(D)	2	(D)	3	(D)
West South Central.....	28	(D)	74	7,193	22	315	15	187	89	(D)
Arkansas.....	3	(D)	7	318	3	(D)	4	(D)	9	866
Louisiana.....	5	(D)	9	738	-	-	1	(D)	4	(D)
Oklahoma.....	3	(D)	14	913	5	(D)	3	(D)	15	249
Texas.....	17	(D)	44	5,224	14	188	7	21	61	787
Mountain.....	9	(D)	23	(D)	12	97	5	(D)	26	263
Montana.....	1	(D)	1	(D)	1	(D)	-	-	-	-
Idaho.....	1	(D)	2	(D)	1	(D)	-	-	-	-
Wyoming.....	-	-	-	-	-	-	-	-	-	-
Colorado.....	3	(D)	11	(D)	6	72	5	(D)	18	195
New Mexico.....	1	(D)	-	-	-	-	-	-	2	(D)
Arizona.....	-	-	3	(D)	2	(D)	-	-	4	(D)
Utah.....	3	(D)	6	(D)	2	(D)	-	-	2	(D)
Nevada.....	-	-	-	-	-	-	-	-	-	-
Pacific.....	42	1,005	155	(D)	89	941	51	535	289	5,911
Washington.....	8	433	26	(D)	9	(D)	3	(D)	15	122
Oregon.....	4	(D)	19	1,376	3	(D)	4	(D)	17	245
California.....	29	513	109	6,358	77	850	44	499	257	5,544
Alaska.....	-	-	-	-	-	-	-	-	-	-
Hawaii.....	1	(D)	1	(D)	-	-	-	-	-	-

See footnotes at end of table.

TABLE 2A. Selected Metalworking Operations by Divisions and States: 1963--Continued

Division and State	Forging (presses, hammers, or upsetters)		Forgings industries (SIC 3391 and 3392)[2]		Electroplating and other plating		Plating and polishing industry (SIC 3471)[3]		Galvanizing and other hot dip coating	
	Establishments	Production workers	Establishments	Production workers	Establishments	Production workers	Establishments	Production workers	Establishments	Production workers
United States, total....	812	14,749	306	33,852	2,068	24,456	3,023	37,722	436	3,622
New England.....	80	996	22	(D)	291	2,717	330	4,443	46	291
Maine.....	5	(D)	-	-	4	(D)	1	(D)	1	(D)
New Hampshire.....	2	(D)	1	(D)	13	55	5	(D)	-	-
Vermont.....	2	(D)	-	-	10	(D)	3	(D)	-	-
Massachusetts.....	34	245	11	(D)	124	832	117	1,555	24	71
Rhode Island.....	3	(D)	1	(D)	14	82	91	1,169	3	(D)
Connecticut.....	34	682	9	(D)	126	1,613	113	1,661	18	201
Middle Atlantic.....	180	2,938	65	(D)	497	4,500	704	7,473	101	604
New York.....	59	1,204	16	1,189	227	2,050	417	4,636	41	185
New Jersey.....	33	408	15	(D)	118	1,168	158	1,486	17	42
Pennsylvania.....	88	1,326	34	(D)	152	1,282	129	1,351	43	377
East North Central.....	265	7,206	138	(D)	637	11,342	1,022	15,089	140	1,560
Ohio.....	90	1,810	46	(D)	193	2,262	247	3,401	49	542
Indiana.....	23	490	9	(D)	87	1,265	80	1,294	16	178
Illinois.....	73	1,643	40	(D)	183	2,875	287	4,561	34	574
Michigan.....	50	2,779	36	4,347	116	4,301	339	5,056	29	215
Wisconsin.....	29	484	7	4,533	58	639	69	777	12	51
West North Central.....	58	614	11	(D)	130	1,233	118	1,662	23	212
Minnesota.....	13	60	5	(D)	33	406	30	556	5	(D)
Iowa.....	19	229	5	(D)	19	127	16	(D)	3	(D)
Missouri.....	11	231	1	(D)	57	546	60	852	14	124
North Dakota.....	-	-	-	-	-	-	-	-	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-
Nebraska.....	8	53	-	-	9	76	1	(D)	1	(D)
Kansas.....	7	41	-	-	12	78	11	126	-	-
South Atlantic.....	41	537	24	(D)	135	1,224	117	1,561	27	238
Delaware.....	1	(D)	-	-	2	(D)	2	(D)	-	-
Maryland.....	8	(D)	3	(D)	25	217	18	86	7	57
District of Columbia.....	1	(D)	-	-	-	-	5	(D)	-	-
Virginia.....	7	70	-	-	21	172	15	108	2	(D)
West Virginia.....	5	(D)	1	(D)	9	133	4	(D)	3	(D)
North Carolina.....	7	27	3	(D)	30	263	16	196	3	(D)
South Carolina.....	2	(D)	4	(D)	6	(D)	6	(D)	3	(D)
Georgia.....	7	36	12	(D)	19	236	12	(D)	4	(D)
Florida.....	3	(D)	1	(D)	23	122	39	336	5	(D)
East South Central.....	43	896	4	(D)	65	794	59	555	16	142
Kentucky.....	13	293	-	-	21	368	16	131	-	-
Tennessee.....	14	373	4	(D)	25	291	24	307	8	52
Alabama.....	12	206	-	-	8	55	16	(D)	7	(D)
Mississippi.....	4	24	-	-	11	80	3	(D)	1	(D)
West South Central.....	41	548	5	(D)	57	362	105	1,028	21	100
Arkansas.....	3	(D)	-	-	9	(D)	5	(D)	2	(D)
Louisiana.....	3	(D)	2	(D)	2	(D)	7	(D)	1	(D)
Oklahoma.....	4	(D)	2	(D)	14	68	19	242	6	33
Texas.....	31	448	1	(D)	32	223	74	677	12	57
Mountain.....	16	48	1	(D)	31	163	45	423	4	(D)
Montana.....	2	(D)	-	-	-	-	1	(D)	-	-
Idaho.....	-	-	1	(D)	1	(D)	2	(D)	-	-
Wyoming.....	-	-	-	-	1	(D)	-	-	-	-
Colorado.....	11	35	-	-	16	42	15	117	-	-
New Mexico.....	-	-	-	-	4	(D)	3	(D)	-	-
Arizona.....	2	(D)	-	-	5	(D)	15	202	2	(D)
Utah.....	1	(D)	-	-	3	(D)	7	(D)	2	(D)
Nevada.....	-	-	-	-	1	(D)	2	(D)	-	-
Pacific.....	88	966	36	(D)	225	2,121	523	5,488	58	(D)
Washington.....	11	100	2	(D)	10	55	18	163	6	(D)
Oregon.....	8	59	-	-	8	111	16	135	3	(D)
California.....	69	807	34	1,400	207	1,955	484	5,170	49	(D)
Alaska.....	-	-	-	-	-	-	-	-	-	-
Hawaii.....	-	-	-	-	-	-	5	(D)	-	-

See footnotes at end of table.

TABLE 2A. Selected Metalworking Operations by Divisions and States: 1963--Continued

Division and State	Heat treating of metals for production purposes		Machine shop		Tool and die shops (operated separately from machine shops)		Foundry pattern shop		Stamping, blanking, and forming of metals	
	Establishments	Production workers	Establishments	Production workers	Establishments	Production workers	Establishments	Production workers	Establishments	Production workers
United States, total....	3,499	25,440	18,581	579,434	8,771	148,830	2,148	15,803	11,115	299,422
New England.....	487	3,438	1,863	64,724	930	12,760	173	933	952	16,447
Maine.....	13	68	45	1,377	14	151	7	(D)	14	114
New Hampshire.....	24	97	81	2,379	31	336	11	47	37	510
Vermont.....	15	64	41	2,642	15	561	5	(D)	16	227
Massachusetts.....	219	978	904	25,644	394	4,810	87	464	403	6,377
Rhode Island.....	27	135	134	4,781	59	474	11	86	77	922
Connecticut.....	189	2,096	658	27,931	417	6,428	52	299	405	8,297
Middle Atlantic.....	735	4,316	4,137	110,372	1,784	23,184	453	3,334	2,390	68,211
New York.....	294	1,511	1,694	42,875	802	10,210	148	963	1,088	16,887
New Jersey.....	144	918	1,038	22,790	440	4,672	74	472	576	11,245
Pennsylvania.....	297	1,887	1,405	44,707	542	8,302	231	1,899	726	40,079
East North Central.....	1,184	12,587	5,796	246,722	3,714	78,095	786	7,591	3,977	148,091
Ohio.....	363	3,588	1,674	64,637	938	18,035	240	1,934	1,053	41,845
Indiana.....	151	1,706	577	29,108	379	8,852	83	793	435	16,805
Illinois.....	317	2,883	1,603	53,244	1,021	13,611	177	1,338	1,208	29,772
Michigan.....	246	3,528	1,330	67,723	1,055	33,211	172	2,644	891	48,666
Wisconsin.....	107	882	612	32,010	321	4,386	114	882	390	11,003
West North Central.....	216	1,113	1,119	29,752	539	8,200	176	961	899	16,422
Minnesota.....	47	258	337	8,200	160	1,551	46	156	250	4,370
Iowa.....	53	364	215	8,265	125	1,561	45	235	199	3,047
Missouri.....	68	274	327	7,750	170	2,859	44	314	282	6,491
North Dakota.....	2	(D)	10	61	1	(D)	2	(D)	5	(D)
South Dakota.....	4	(D)	10	119	4	(D)	1	(D)	7	(D)
Nebraska.....	18	81	77	1,493	27	296	10	38	58	855
Kansas.....	24	117	143	3,864	52	1,915	28	214	98	1,537
South Atlantic.....	218	1,052	1,092	24,323	358	4,427	142	548	669	14,131
Delaware.....	5	(D)	27	605	7	(D)	3	(D)	9	145
Maryland.....	35	302	171	5,471	61	733	13	76	115	3,540
District of Columbia.....	1	(D)	11	92	1	(D)	-	-	6	32
Virginia.....	25	130	149	3,996	37	423	19	119	73	1,555
West Virginia.....	17	84	85	2,023	20	225	16	46	40	1,528
North Carolina.....	54	195	190	4,297	76	733	34	83	115	1,648
South Carolina.....	17	105	65	1,984	21	228	12	(D)	40	670
Georgia.....	35	134	148	3,066	54	1,410	23	113	114	3,443
Florida.....	29	95	246	2,789	81	546	22	56	157	1,570
East South Central.....	128	608	455	11,268	205	2,731	85	579	340	8,979
Kentucky.....	32	188	128	3,508	69	1,162	12	(D)	116	3,083
Tennessee.....	48	268	136	3,972	80	1,039	29	134	119	3,539
Alabama.....	28	80	134	2,751	29	316	43	337	60	1,294
Mississippi.....	20	72	57	1,037	27	214	1	(D)	45	1,063
West South Central.....	161	743	992	20,867	251	4,038	90	703	459	5,703
Arkansas.....	13	50	74	1,112	32	282	9	33	55	1,121
Louisiana.....	15	61	95	1,414	15	348	14	80	37	371
Oklahoma.....	30	99	186	3,336	43	674	15	51	69	926
Texas.....	103	533	637	15,005	161	2,734	52	539	298	3,285
Mountain.....	56	210	314	6,827	90	993	36	154	110	2,728
Montana.....	2	(D)	10	34	-	-	1	(D)	2	(D)
Idaho.....	3	(D)	24	180	4	(D)	3	(D)	8	171
Wyoming.....	-	-	3	(D)	2	(D)	-	-	3	(D)
Colorado.....	26	73	129	2,645	39	329	21	93	48	444
New Mexico.....	6	21	27	1,117	4	(D)	-	-	7	31
Arizona.....	11	77	73	1,595	24	355	3	(D)	25	(D)
Utah.....	8	27	43	1,210	17	222	8	47	16	170
Nevada.....	-	-	5	(D)	-	-	-	-	1	(D)
Pacific.....	314	1,373	2,813	64,579	900	14,402	207	1,000	1,319	18,710
Washington.....	27	121	183	5,264	36	873	22	96	86	1,182
Oregon.....	23	55	156	2,643	34	178	15	(D)	71	(D)
California.....	264	1,197	2,461	56,575	830	13,351	169	826	1,159	17,077
Alaska.....	-	-	2	(D)	-	-	-	-	1	(D)
Hawaii.....	-	-	11	(D)	-	-	1	(D)	2	(D)

Note: By definition, the nature of the manufacturing operations performed by establishments classified in the foundry, forging, and polishing and plating industries implies that the establishments classified in these industries are engaged in the specified metalworking operations. Accordingly, the reporting forms for these industries either did not include a metalworking operations inquiry or included only an abbreviated inquiry on such activities. The number of establishments and production workers in these industries are shown by State in separate columns in the above table as part of the related metalworking operation.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

[1]The metalworking inquiry for the foundry industries did not request information on foundry or die casting operations. These figures represent the total number of establishments and, where publishable, the number of production workers classified in the foundry industries in each State. These establishments may be engaged in foundry operations (except die casting), die casting, or both.

[2]These figures represent the total number of establishments and, where publishable, the number of production workers classified in the forgings industries in each State. These establishments may be engaged in ferrous forging operations, nonferrous forging operations, or both.

[3]These figures represent the total number of establishments and, where publishable, the number of production workers classified in the plating and polishing industry. Most of these establishments perform electroplating operations.

TABLE 2B. Coverage of Employment in Selected Metalworking Operations by Divisions and States: 1963

Division and State	Percent of industry production workers in establishments which[1]--		
	Completed the metalworking operations inquiry	Reported one or more of the specified operations	Reported that "none" of the operations apply
United States, total	85-90	80-85	0-5
New England	90-95	85-90	0-5
Maine	85-90	80-85	0-5
New Hampshire	90-95	85-90	0-5
Vermont	90-95	85-90	5-10
Massachusetts	85-90	85-90	0-5
Rhode Island	85-90	80-85	0-5
Connecticut	90-95	90-95	0-5
Middle Atlantic	85-90	80-85	0-5
New York	85-90	80-85	0-5
New Jersey	80-85	75-80	0-5
Pennsylvania	85-90	85-90	0-5
East North Central	90-95	85-90	0-5
Ohio	90-95	85-90	0-5
Indiana	90-95	85-90	0-5
Illinois	85-90	85-90	0-5
Michigan	90-95	85-90	0-5
Wisconsin	90-95	90-95	0-5
West North Central	85-90	80-85	0-5
Minnesota	80-85	75-80	0-5
Iowa	90-95	90-95	0-5
Missouri	80-85	75-80	0-5
North Dakota	65-70	55-60	5-10
South Dakota	80-85	75-80	0-5
Nebraska	85-90	80-85	0-5
Kansas	90-95	85-90	0-5
South Atlantic	85-90	80-85	0-5
Delaware	85-90	80-85	0-5
Maryland	85-90	85-90	0-5
District of Columbia	65-70	35-40	25-30
Virginia	90-95	85-90	0-5
West Virginia	85-90	75-80	5-10
North Carolina	85-90	80-85	5-10
South Carolina	85-90	80-85	0-5
Georgia	85-90	80-85	0-5
Florida	70-75	60-65	5-10
East South Central	80-85	75-80	5-10
Kentucky	85-90	80-85	5-10
Tennessee	80-85	70-75	5-10
Alabama	80-85	70-75	10-15
Mississippi	85-90	80-85	0-5
West South Central	80-85	75-80	0-5
Arkansas	75-80	75-80	0-5
Louisiana	80-85	75-80	5-10
Oklahoma	75-80	75-80	0-5
Texas	80-85	75-80	0-5
Mountain	90-95	85-90	0-5
Montana	50-55	50-55	0-5
Idaho	75-80	65-70	5-10
Wyoming	30-35	20-25	5-10
Colorado	80-85	75-80	0-5
New Mexico	95-100	90-95	5-10
Arizona	85-90	85-90	0-5
Utah	95-100	75-80	15-20
Nevada	60-65	45-50	15-20
Pacific	80-85	75-80	5-10
Washington	90-95	90-95	0-5
Oregon	85-90	75-80	5-10
California	80-85	75-80	5-10
Alaska	35-40	35-40	-
Hawaii	70-75	50-55	15-20

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

[1]The coverage ratios show the relationship of the number of production workers for plants which completed the metalworking inquiry to the total number of production workers in the same State or division for those industries to which the metalworking inquiry was applicable. The ratios are computed on the basis of the total number of production workers of plants answering the metalworking inquiry rather than the number of production workers engaged in metalworking operations.

Water Use in Manufacturing

Chapter 10

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WATER USE IN MANUFACTURING

GENERAL

This report contains statistics showing the use of water by manufacturing industries in 1964 with comparable data for 1959.

Information on industrial water use by manufacturing establishments was first collected and published by the Bureau of the Census in the 1953 Annual Survey of Manufactures. In the 1963 Census of Manufactures, as in the 1954 Census, information on water use was collected from all manufacturing establishments employing six or more people, except for establishments in the printing and publishing and apparel industries. The latter establishments are relatively small water users and/or operate primarily in rented quarters where water is generally furnished by the landlord. The detailed information on water utilization for 1964 was collected and published for those manufacturing establishments using 20 million gallons of water or more per establishment.

Information was not collected in the 1958 Census of Manufactures. However, a special post-census survey was taken in 1959, which included all establishments reporting water use of 20 million gallons or more in 1954 as well as all companies having at least one establishment with 250 employees or more in the 1958 Census of Manufactures. In industries known to be extensive users of water, all establishments with 100 employees or more were included.

Approximately 85 percent of the 14.1 trillion gallons consumed by manufacturing establishments in 1964 was accounted for by four major industry groups; namely, Primary Metal Industries (Major Group 33), Chemicals and Allied Products (Major Group 28), Paper and Allied Products (Major Group 26), and Petroleum and Coal Products (Major Group 29). In fact, almost all the increase in industrial demand for water from 1954 to 1959 (1,870 billion gallons) and from 1959 to 1954 (605 billion gallons) can be attributed to these four major industry groups. Even within these major groups, specific industries accounted for the major share: Blast furnaces and steel mills consumed about 27 percent of the total manufacturing consumption of water and manufacturers of industrial chemicals used about 21 percent of the total. About 60 percent of industrial water was consumed by establishments located in five Water-Use Regions; namely, the Delaware and Hudson, the Ohio River, the Eastern Great Lakes, the Western Great Lakes, and the Western Gulf Regions.

MANUFACTURERS USE OF WATER

While manufacturing industries are important users of water in the United States, the utilization by such establishments is highly concentrated. According to the 1964 survey, establishments with an annual water intake of 20 million gallons of water or more accounted for about 97 percent of water withdrawn for manufacturing purposes. These plants, however, represent only about 3 percent of all manufacturing establishments and employ approximately 39 percent of the total number of persons engaged in manufacturing.

1964 INDUSTRIAL WATER USE

In the 1963 Census of Manufactures, the standard census forms submitted by all establishments employing over five people, contained a check-type question on water consumption in terms of broad size ranges of gallonage usage. The returns indicated that, of the 300,000 establishments with six or more employees, approximately 10,000 establishments reported using 20 million gallons of water or more. These "large" water users were included in the special water survey for 1964 (MC-D13) and reported, for that year, detailed information on water use by source; purpose of water intake; point of discharge, and kind of water treatment. Excluded from the 1964 survey were establishments in Major Groups 23, Apparel, and 27, Printing and Publishing.[1] All data for wate uses exclude government-owned establishments operated by private contractors for the account of the Atomic Energy Commission. Both the 1964 and 1959 figures, but not those for 1954 figures, but not those for 1954, include data for establishments located in Alaska and Hawaii.

While the quantity of water intake by manufacturing establishments is relatively large, the quantities actually consumed in process, by evaporation, etc., is only about 6 percent of the withdrawals. Data on net use, as defined above, may be calculated in the tables shown in this report by subtracting water discharged from water intake. Gross water use, as shown in the tables, reflects recirculation or resue of the water in the same establishments and partially reflects water management. While no measure of the deterioration of the water resulting from use is available, data are shown for the quantities of intake water treated as well as for treatment of water for discharge.

The tables appearing in this chapter (tables 1 to 9) provide statistics for establishments using 20 million gallons or more annually, and include those which recirculate and those which treat discharge water. The arrangement of the data is by industry, industrial water-use region, and State. The boundaries for States are political, while those for industrial water-use regions are combinations of counties without regard for State lines. These regions, which center around river basins, were developed in consultations with the Federal agencies having responsibility for water development or use and with representatives of private industry and they approximate the major drainage systems in the country, Minor changes in the composition of these water regions, made between 1959 and 1964 have no significant effect on the comparability of the data. The areas included are shown in a series of maps appearing in this report. The industry classifications used are based on the 1957 edition of the Standard Industrial Classification (SIC) manual (see Introduction).

Totals for water use have been provided for the SIC industry classifications at the 2-, 3-. and 4-digit levels. Differences in manufacturing processes are not as great at the SIC 4-digit level as at the higher order 2- and 3-digit levels. Accordingly, the water-use statistics are most meaningful when examined on a 4-digit SIC basis and related to the processes, products, employment data, etc., at that level. The aggregations at the 3-, but particularly at the 2-digit levels, represent totals for industries which differ widely in processes used, materials fabricated, or products produced. (See Introduction--Industry Classification of Establishments.) Thus, for example, the water consumption use for Major Group 26, Paper and Allied Products, will differ in the Pacific Northwest Water Use Region from that in California Water Use Region because of industrial composition as well as because of geography or other factors.

WATER, EMPLOYMENT, VALUE ADDED, AND VALUE OF SHIPMENTS

While industrial processes and geography determine very largely the consumption pattern of water intake, differing manufacturing practices and institutional variations also affect the use and reuse of water. Measures regarding the relationship of water intake and water management to industrial activity are frequently needed to gage present and future industrial water requirements.

[1] *While data were collected for Major Group 19, Ordnance and Accessories, the water intake is not shown separately for this group.*

To facilitate such studies at either local or regional levels, the tables shown in this report contain data showing, for selected industrial groups, the employment, value added by manufacture, and value of shipments, for significant water users which, as indicated above, account for practically all industrial water consumption. The most valid use of these data is to provide measures of industrial activity for significant water-using establishments as well as to show those establishments which circulate water, treat water discharge or use water for other purposes. The industrial activity measures (employment, value of shipments, and value added by manufacture) are from the census of manufactures covering the year 1963.

DEFINITION OF INDUSTRIAL WATER USE TERMS

The terms "establishments," "manufacturing industries," "industry classifications," "Standard Industrial Classification,""employment," "value of shipments," value added," are defined in the Introduction.

Water Intake:

Public Water System, Fresh water supplied by a water system (whether publicly or privately owned) whose primary purpose is to supply water to the general public. The data also include fresh water supplied by systems whose principal function is to supply water to industrial users.

Company Water System. Fresh water supplied from a company's water supply system or obtained from another company where the supplying company is not primarily a water supplier to the general public and/or industrial users. The data also include only that portion of fresh water obtained from a joint water supply system operated by the reporting company.

Brackish water is defined as all water with more than 1,000 parts per million of dissolved solids.

Gross Water Used. The total quantity of water which would have been needed if no water was recirculated or reused. For example, if 100 million gallons of intake water were used twice for cooling purposes, and then the same water was again reused for washing products or materials, the total water required would be 300 million gallons (less consumption and evaporation loss).

Water Discharged:

Total. Quantity of water brought to ultimate discharge point. The data exclude quantities of water held in ponds, lagoons, or basins, for reuse or treatment, or water discharged by evaporation processes.

Ground. Includes quantities which seep into ground from collection basins, such as ponds, lagoons, etc.

Transferred to Other Users. Includes quantities transferred after use, to another establishment of either your company or another company.

Water Treated. The total quantity of water treated for control of biological growth, removal of suspended or dissolved solids, for corrosion control, or for any other purpose by simple or complex methods.

Water Intake Treated. Excludes quantities of intake water treated only by chlorination.

Water Discharge Treated. Includes quantities treated for discharge by all methods, including chlorination.

COVERAGE

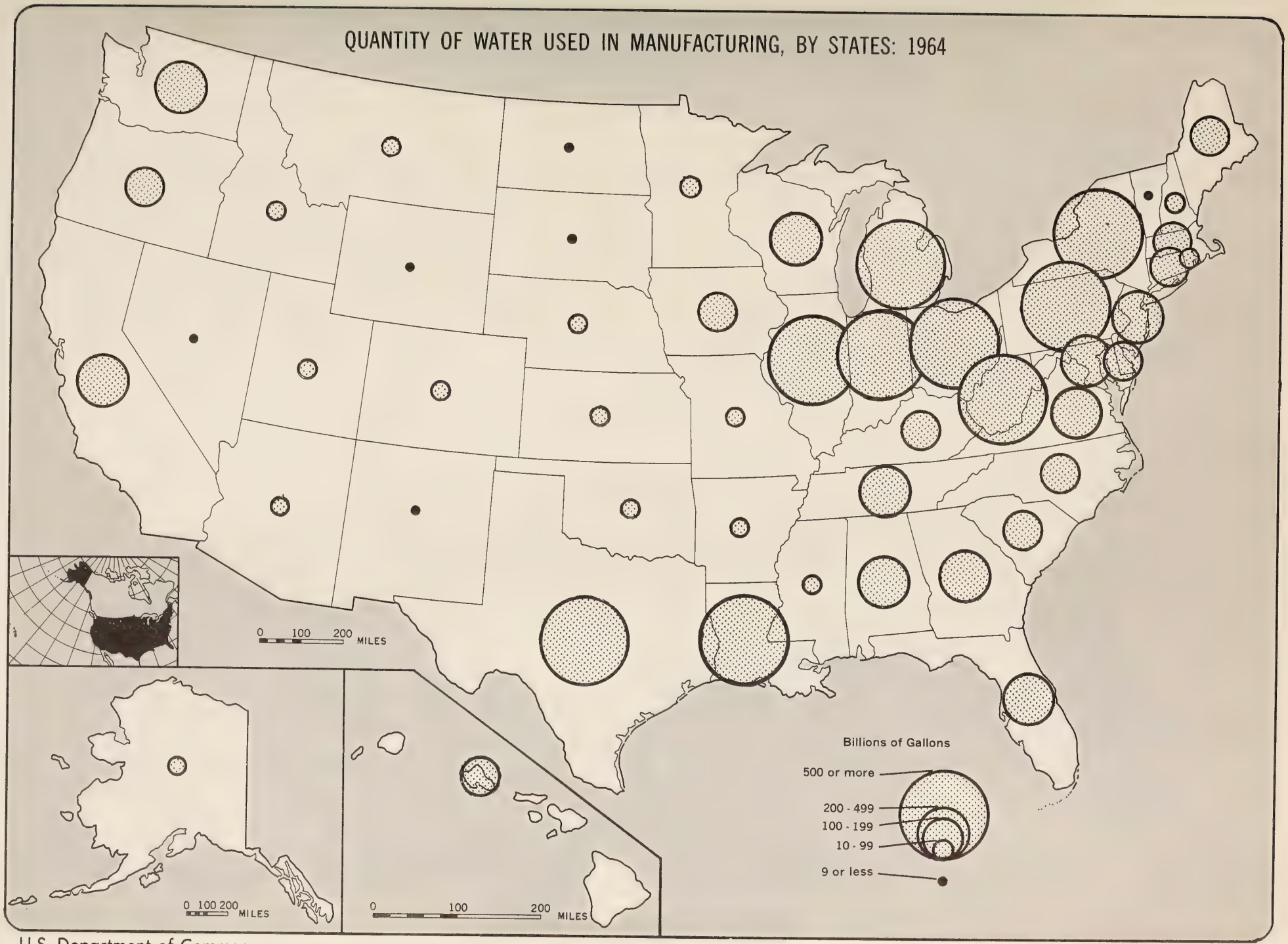
As previously stated, the water usage as reported in these tables covers better than 97 percent of all water intake by manufacturing establishments. Reasonable estimates of water usage by manufacturing establishments consuming less than 20 million gallons of water by industry, water-use region, and State, can be derived by using the 1963 census data as shown in table 10. Estimates of total water consumption (including consumption by small users) for a specific industry, water-use region, or State can be obtained for the first three water-consumption size classes; i.e., under 1 million gallons, 1 to 9 million gallons, and 10 to 19 million gallons. In order to obtain an estimate for those establishments consuming under 1 million gallons of water, multiply the factor .34 million gallons times the number of establishments in that consumption size group; for establishments consuming from 1 to 9 million gallons, use the factor 4.65 million gallons; and for those establishments consuming 10 to 19 million gallons, use the factor 14.19. The expected relative error using this method of estimation is less than 10 percent. Establishments using 20 million gallons of water or more were the basis for the 1964 Industrial Water Use Survey. The consumption of water by these establishments is shown in the following tables showing exact water intake figures.

TABLE AA. Comparative Statistics for All Establishments and Those Establishments Consuming 20 Millon Gallons of Water or More in 1964

Code	Industry group	Establishments			All employees			Value added by manufacture, adjusted		
		Total	Establishments reporting water consumption of 20 million gallons or more		Employees of all establishments	Establishments reporting water consumption of 20 million gallons or more		All establishments	Establishments reporting water consumption of 20 million gallons or more	
		(number)	Number	Percent of total	(1,000)	Number (1,000)	Percent of total	(million dollars)	Value (million dollars)	Percent of total
	United States, total[1]	311,784	8,925	2.9	16,497	6,397	38.8	205,963	94,706	46.0
20	Food and kindred products	37,521	2,405	6.4	1,648	626	38.0	23,055	10,073	44.0
21	Tobacco manufactures	394	18	4.6	79	31	39.2	1,772	1,122	63.3
22	Textile mill products	7,103	603	8.5	877	353	40.3	6,736	2,649	39.3
23	Apparel and related products	28,459	-	-	1,305	-	-	8,150	-	-
24	Lumber and wood products	36,150	186	0.5	562	66	11.7	4,361	574	13.2
25	Furniture and fixtures	10,478	45	0.4	386	35	9.1	3,225	307	9.5
26	Paper and allied products	5,713	634	11.1	593	249	45.9	7,805	3,856	49.4
27	Printing and publishing	38,090	-	-	935	-	-	11,065	-	-
28	Chemicals and allied products	11,993	1,062	8.9	749	480	64.1	19,133	12,590	76.8
29	Petroleum and coal products	1,839	268	14.6	149	119	79.9	3,774	3,066	81.2
30	Rubber and plastics products, n.e.c.	5,728	280	4.9	429	210	49.0	4,984	2,667	53.5
31	Leather and leather products	4,047	85	2.1	327	26	8.0	2,270	228	10.0
32	Stone, clay, and glass products	15,838	555	3.5	581	218	37.5	7,520	3,180	42.3
33	Primary metal industries	6,513	785	12.1	1,179	814	69.0	16,732	11,502	68.7
34	Fabricated metal products	26,976	485	1.8	1,116	258	23.1	12,636	3,205	25.4
35	Machinery, except electrical	33,703	400	1.2	1,537	531	34.5	19,763	6,560	33.2
36	Electrical machinery	9,860	470	4.8	1,484	800	53.9	18,040	9,637	53.4
37	Transportation equipment	7,196	417	5.8	1,624	206	12.7	23,961	18,779	78.4
38	Instruments and related products	3,949	98	2.5	309	146	47.2	4,333	2,111	48.7
39	Miscellaneous manufacturing	14,723	76	5.2	395	43	10.9	3,776	529	14.7

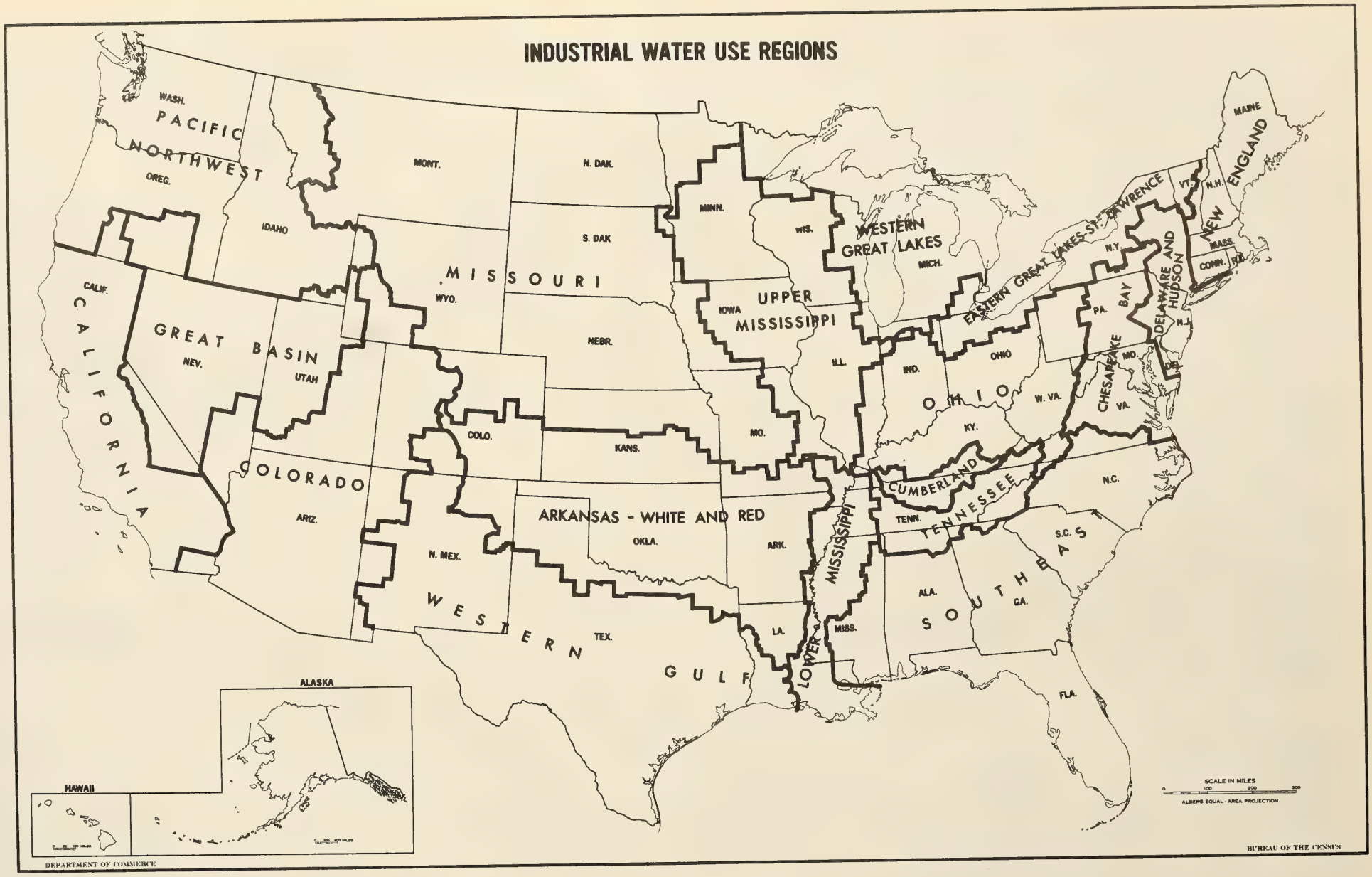
Note: Detailed figures may not add because of independent rounding.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available.
(X) Not applicable.
n.e.c. Not elsewhere classified.
[1]Excludes central administrative offices or auxiliary units. Major Group 19 is included although not shown separately.

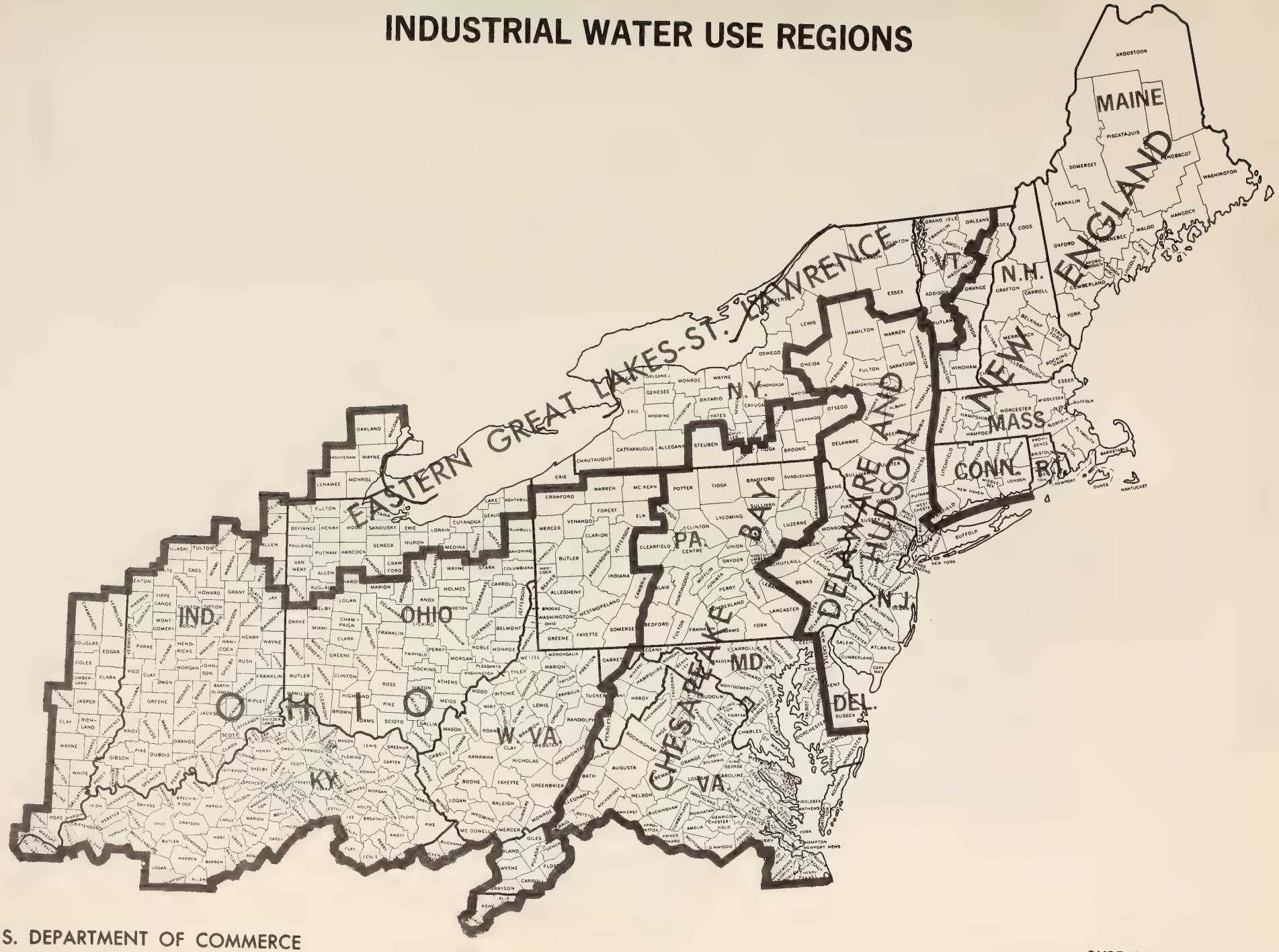


U.S. Department of Commerce

Bureau of the Census


INDUSTRIAL WATER USE REGIONS
PACIFIC NORTHWEST
CALIFORNIA
GREAT BASIN
COLORADO
MISSOURI
UPPER MISSISSIPPI
WESTERN GREAT LAKES
EASTERN GREAT LAKES-ST. LAWRENCE
OHIO
ARKANSAS - WHITE AND RED
WESTERN GULF
LOWER MISSISSIPPI
CUMBERLAND TENNESSEE
SOUTHEAST
CHESAPEAKE BAY
DELAWARE AND HUDSON
NEW ENGLAND
WASH.
OREG.
CALIF.
IDAHO
NEV.
MONT.
WYO.
UTAH
ARIZ.
COLO.
N. MEX.
N. DAK.
S. DAK
NEBR.
KANS.
OKLA.
TEX.
MINN.
IOWA
MO.
ARK.
LA.
WIS.
ILL.
MICH.
IND.
OHIO
KY.
TENN.
MISS.
ALA.
GA.
FLA.
S.C.
N.C.
W. VA.
VA.
MD.
DEL.
PA.
N.J.
N.Y.
CONN.
R.I.
MASS.
VT.
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MAINE
ALASKA
HAWAII
SCALE IN MILES
ALBERS EQUAL-AREA PROJECTION
DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

INDUSTRIAL WATER USE REGIONS



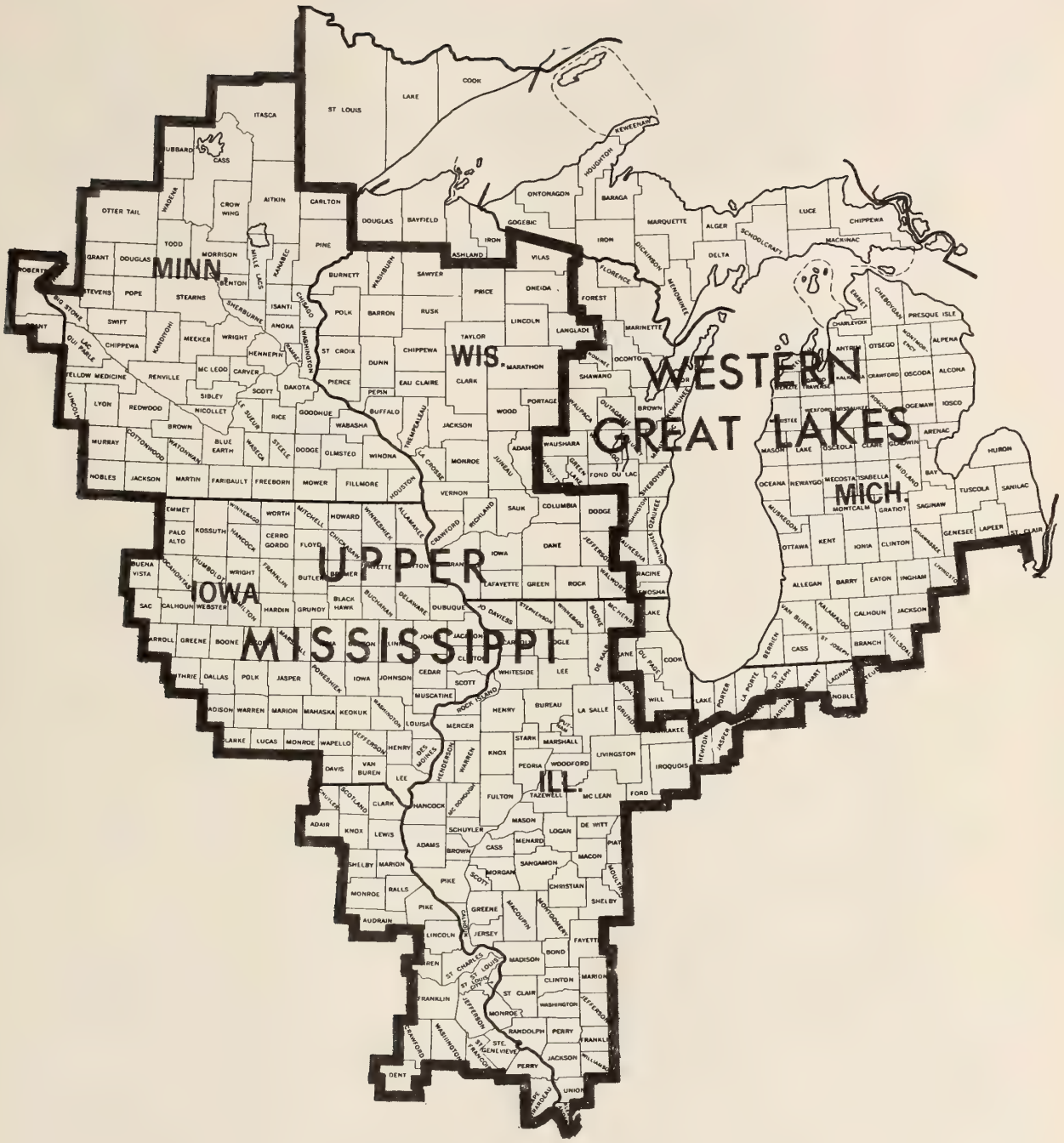
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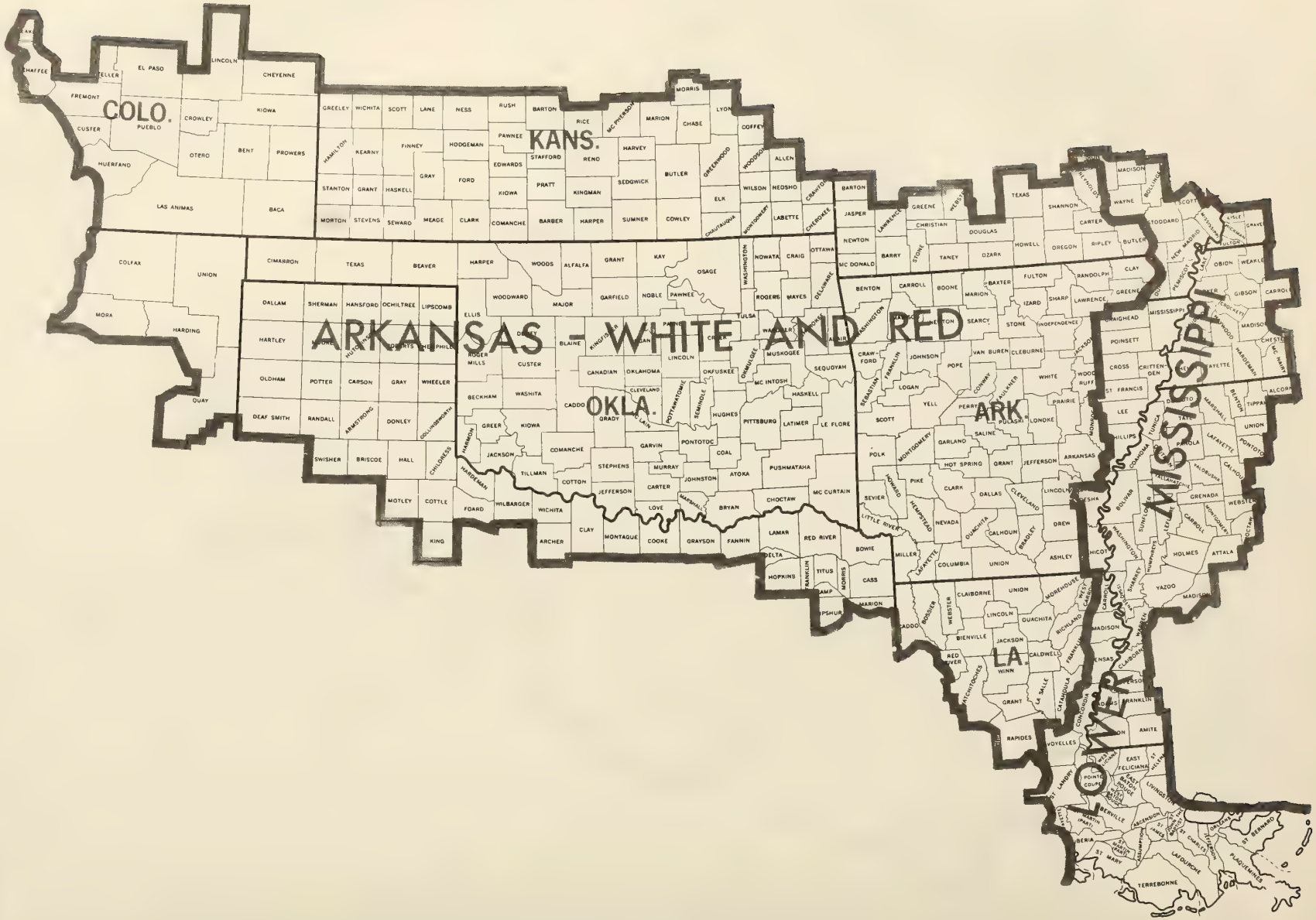
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INDUSTRIAL WATER USE REGIONS



INDUSTRIAL WATER USE REGIONS



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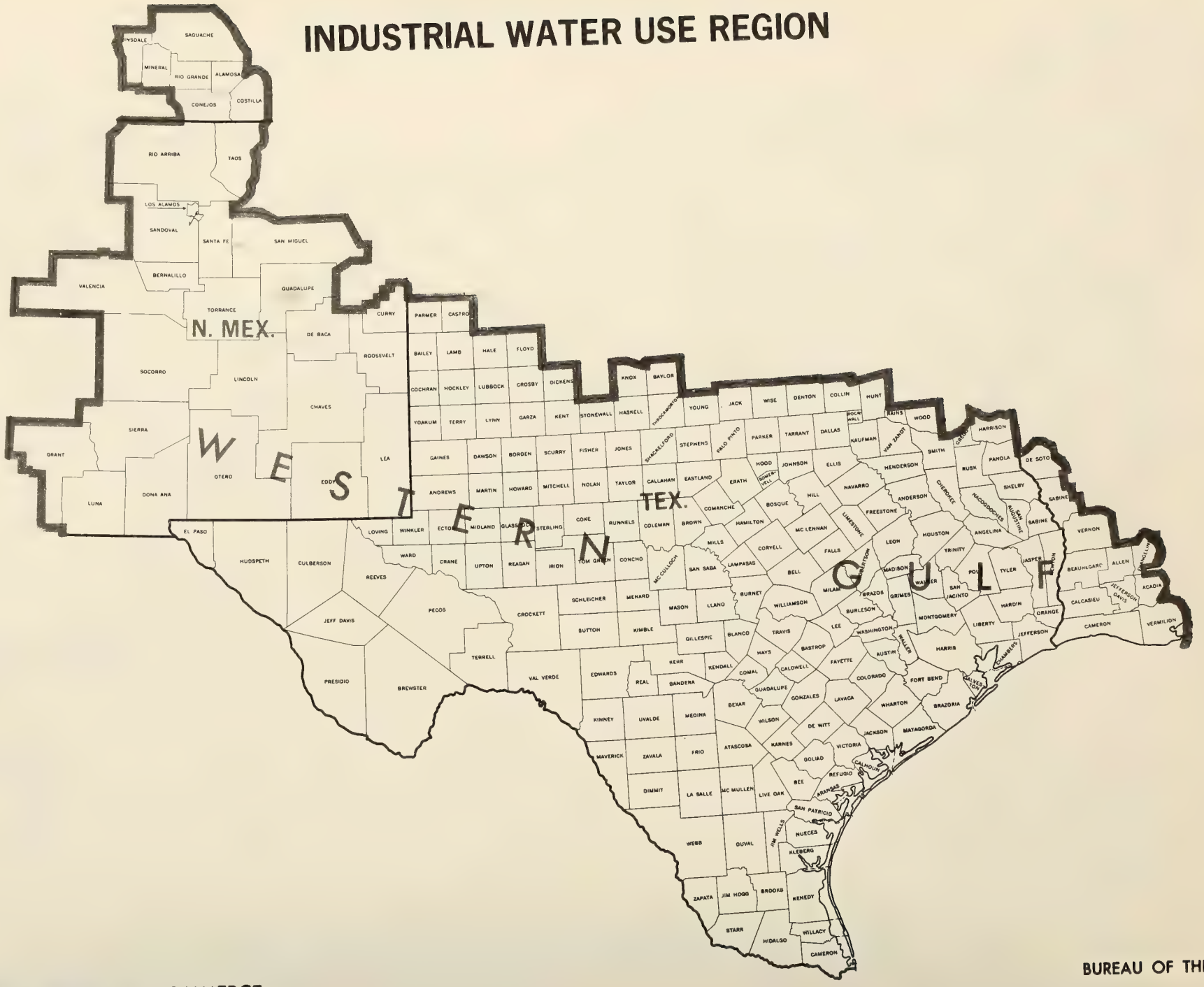
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INDUSTRIAL WATER USE REGION



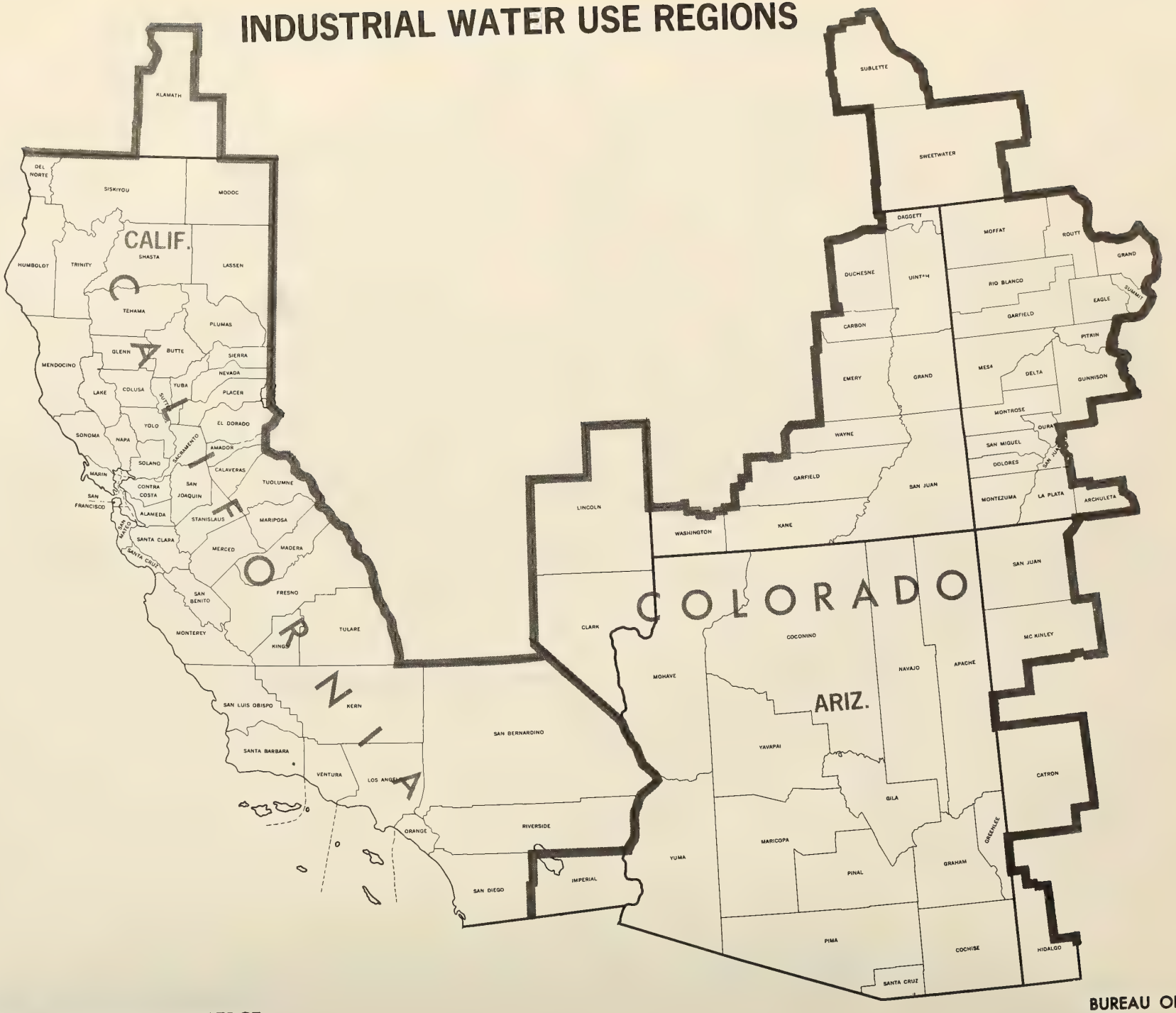
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INDUSTRIAL WATER USE REGIONS

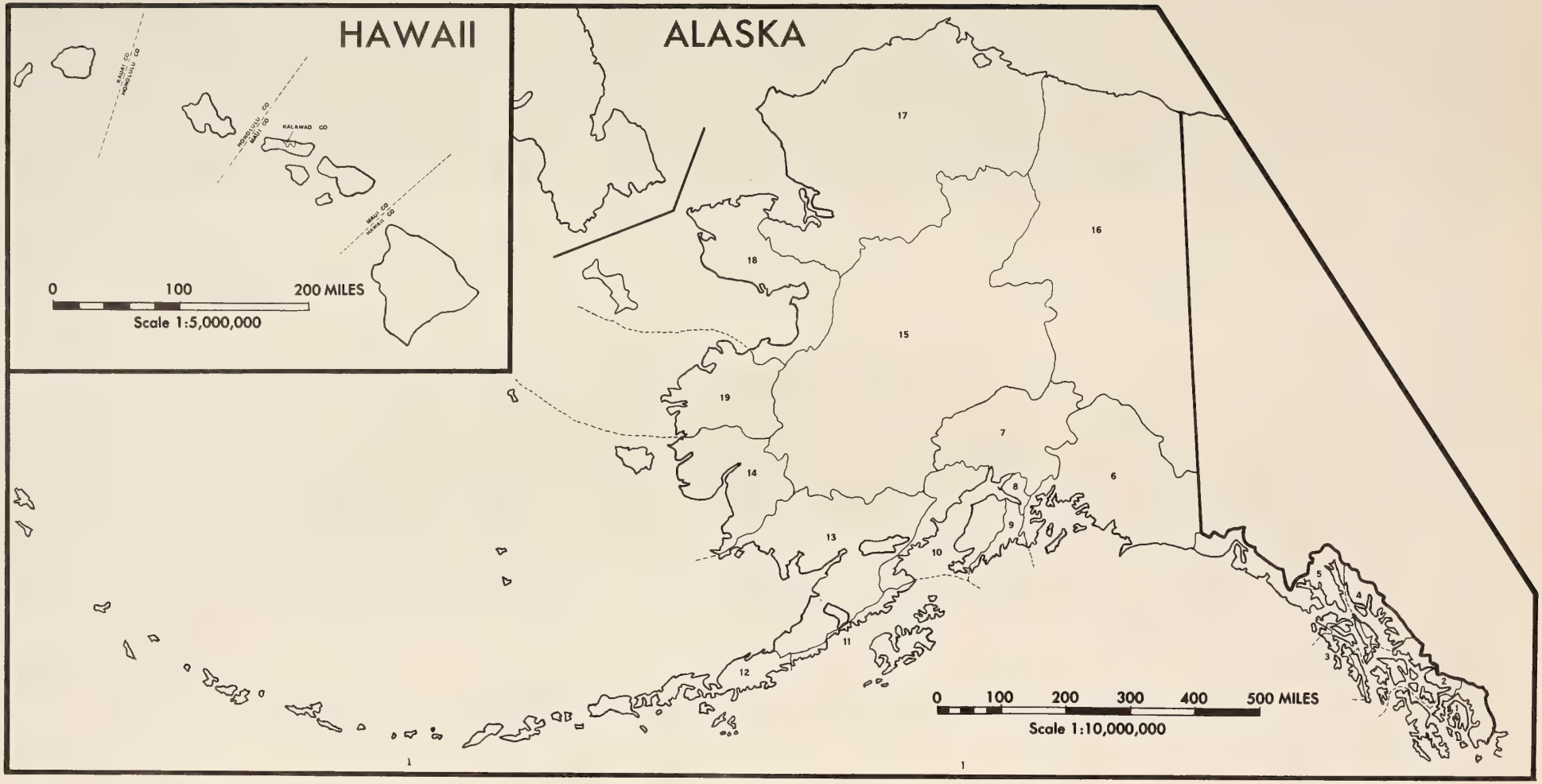


TABLE 1. Water Use In Manufacturing Industries By Major Industry Groups: 1964, 1959 and 1954

(In billion gallons, except employees)

Code	Industry group	Year	Water intake			Gross water used	Water discharged		All employees[1] (1,000)
			Total	Fresh	Brackish		Total	Treated prior to discharge	
	All industries, total[2]	1964	14,045	11,209	2,836	30,599	13,157	3,825	6,397
		1959	r12,131	r9,689	2,442	r26,257	r11,445	r2,666	6,560
		1954	11,570	9,948	1,622	21,042	10,789	1,373	6,929
20	Food and kindred products	1964	760	681	79	1,280	688	158	626
		1959	624	555	69	1,298	571	74	618
		1954	616	556	60	1,318	550	38	672
21	Tobacco manufactures	1964	3	3	-	19	2	(Z)	31
		1959	3	3	-	44	2	(Z)	43
		1954	3	3	-	11	2	-	34
22	Textile mill products	1964	148	146	1	311	135	35	353
		1959	135	135	1	182	120	17	378
		1954	184	181	3	211	147	13	454
24	Lumber and wood products	1964	151	126	24	217	123	34	66
		1959	140	116	24	184	126	31	75
		1954	133	107	26	160	109	1	85
25	Furniture and fixtures	1964	3	3	-	4	3	(Z)	35
		1959	3	2	(Z)	4	2	(Z)	31
		1954	7	7	(Z)	8	4	(Z)	42
26	Paper and allied products	1964	2,071	1,918	152	6,026	1,947	707	249
		1959	1,937	1,768	170	6,046	1,824	r763	282
		1954	1,786	1,651	135	4,242	1,620	201	251
28	Chemicals and allied products	1964	3,888	2,548	1,340	7,577	3,662	580	480
		1959	3,240	2,083	1,157	5,225	3,061	499	434
		1954	2,685	2,172	513	4,293	2,550	332	447
29	Petroleum and coal products	1964	1,398	710	688	6,161	1,317	1,006	119
		1959	1,319	719	600	5,780	1,204	656	142
		1954	1,245	637	608	4,152	1,134	458	155
30	Rubber and plastics products, n.e.c.	1964	163	162	1	336	155	9	210
		1959	127	122	4	r218	119	4	212
		1954	131	126	5	210	124	1	210
31	Leather and leather products	1964	16	16	(Z)	18	15	7	26
		1959	12	12	(Z)	14	12	2	26
		1954	20	19	1	22	18	4	37
32	Stone, clay, and glass products	1964	249	209	39	389	218	41	218
		1959	r251	r222	29	r412	r264	11	231
		1954	279	258	21	575	254	27	207
33	Primary metal industries	1964	4,578	4,150	428	6,778	4,312	1,178	814
		1959	3,702	3,408	294	5,673	3,551	536	852
		1954	3,842	3,621	221	4,947	3,682	270	912
34	Fabricated metal products	1964	57	56	2	123	53	9	258
		1959	44	42	1	71	41	3	316
		1954	113	112	1	136	102	5	358
35	Machinery, except electrical	1964	157	129	27	287	149	12	531
		1959	171	147	23	251	165	31	514
		1954	114	111	3	153	116	3	690
36	Electrical machinery	1964	105	104	1	266	91	15	800
		1959	93	82	11	159	88	7	567
		1954	114	103	11	130	90	5	464
37	Transportation equipment	1964	247	193	54	663	237	24	1,206
		1959	260	203	56	522	229	22	1,285
		1954	231	222	9	325	215	9	1,418
38	Instruments and related products	1964	29	29	(Z)	76	26	9	146
		1959	23	23	(Z)	60	22	7	153
		1954	19	19	(Z)	54	18	(Z)	140
39	Miscellaneous manufacturing	1964	13	13	-	22	12	(Z)	43
		1959	14	13	(Z)	20	13	1	45
		1954	21	16	5	24	21	6	66

Note: Detail figures may not add to totals because of independent rounding.

- Represents zero. (NA) Not available. rRevised. (Z) Less than 500 million gallons.

[1]Includes employees in establishments consuming 20 million gallons or more water.

[2]Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 23 and 27. In 1959, such establishments had total water intake of 23 billion gallons, gross water use of 58 billion gallons, discharge of 22 billion gallons of water, and 152 thousand employees. Data for Major Group 19 is included in all total figures but was considered too insignificant to publish.

TABLE 2. Water Intake by Purpose, 1964, Gross Water

A. INDUSTRY GROUPS

Code	Industry group and industry	1964					
		Establishments reporting consumption of water			Water intake by purpose		
		All employees (number)	Value added by manufacture, adjusted (million dollars)	Total (number)	All purposes		Process (billion gallons)
					Total (billion gallons)	Treated prior to use (billion gallons)	
	United States, total[1]	6,396,906	94,706	8,925	14,045	2,932	3,703
20	Food and kindred products	626,106	10,073	2,405	760	113	264
201	Meat products	160,645	1,604	443	105	21	52
2011	Meat slaughtering plants	114,444	1,249	237	84	19	37
2013	Meat processing plants	14,269	179	52	4	(Z)	2
2015	Poultry dressing plants	31,932	176	154	17	1	13
202	Dairies	76,166	1,105	562	62	7	13
2021	Creamery butter	2,995	33	61	8	1	1
2022	Natural and process cheese	3,902	53	38	3	(Z)	(Z)
2023	Condensed and evaporated milk	7,878	182	93	18	2	1
2024	Ice cream and frozen desserts	6,082	118	53	4	(Z)	(Z)
2026	Fluid milk	55,309	718	317	31	3	10
203	Canned and frozen foods	122,194	1,671	456	92	14	51
2031	Canned and cured seafoods	4,824	69	14	2	(Z)	1
2032	Canned specialties	18,496	413	37	13	7	9
2033	Canned fruits and vegetables	56,019	683	239	35	3	20
2034	Dehydrated foods products	5,175	72	23	4	(Z)	4
2035	Pickles, sauces, salad dressings	7,440	106	31	3	(Z)	1
2036	Fresh or frozen packaged fish	3,422	19	13	1	(Z)	(Z)
2037	Frozen fruits and vegetables	26,818	310	99	34	2	15
204	Grain mills	33,668	936	73	58	12	8
2041	Flour mills	5,015	101	21	2	(Z)	1
2042	Prepared animal feeds	3,426	96	17	3	1	1
2043	Cereal preparations	9,882	332	11	5	1	1
2046	Wet corn milling	12,572	283	17	48	10	5
205	Bakery products	37,257	529	63	4	1	1
2051	Bread and related products	21,018	221	45	2	(Z)	(Z)
2052	Biscuit, crackers, and cookies	16,239	309	18	2	1	(Z)
206	Sugar	28,666	525	123	242	29	105
2061	Raw cane sugar	6,661	99	46	123	4	80
2062	Cane sugar refining	10,944	231	19	65	3	4
2063	Beet sugar	11,061	196	58	54	22	22
207	Candy and related products	33,643	519	49	19	1	(Z)
208	Beverages	95,722	2,241	329	108	18	24
2082	Malt liquors	56,835	1,189	119	59	10	14
2083	Malt	1,311	31	24	7	2	3
2084	Wines and brandy	2,034	55	22	4	(Z)	1
2085	Distilled liquor, except brandy	13,189	490	36	30	3	2
2086	Bottled and canned soft drinks	19,923	267	114	6	2	4
2087	Flavorings	2,430	209	14	2	(Z)	1
209	Miscellaneous foods and kindred products	38,145	944	307	69	11	10
2091	Cottonseed oil mills	1,410	23	13	2	(Z)	(Z)
2092	Soybean oil mills	5,159	133	49	13	3	2
2094	Animal and marine fats and oils	3,756	58	71	9	1	(Z)
2096	Shortening and cooking oils	9,551	192	45	17	4	1
2095	Roasted coffee	4,530	295	14	2	1	1
2099	Food preparations, n.e.c.	11,544	209	58	16	1	3
21	Tobacco manufactures	30,984	1,122	18	3	1	1
2111	Cigarettes	28,301	1,091	10	2	1	1
22	Textile mill products	353,340	2,649	603	148	90	106
2211	Weaving mills, cotton	127,850	788	123	27	19	16
2221	Weaving mills, synthetics	47,750	364	70	10	5	7
2231	Weaving, finishing mills, wool	23,596	218	63	19	11	16
225	Knitting mills	40,078	262	71	7	4	5
2251	Women's hosiery, except socks	15,546	96	13	1	1	1
2252	Hosiery, n.e.c.	6,770	33	14	1	(Z)	1
2253	Knit outerwear mills	7,073	37	10	1	1	1
2254	Knit underwear mills	3,970	23	6	(Z)	(Z)	(Z)
2256	Knit fabric mills	6,719	73	28	3	2	3

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959

AND INDUSTRIES

1964--Continued						1959					Code
Water intake by purpose--Continued			Establishments recirculating or reusing water	Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	All employees	Value added by manufacture, adjusted	
Cooling and condensing		Boiler feed, sanitary service, and other uses									
Steam electric power generation (billion gallons)	Other (billion gallons)	(billion gallons)	(number)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(1,000)	(million dollars)	
2,856	6,529	959	6,142	30,599	13,157	r12,131	r26,257	r11,445	6,560	(X)	
55	337	104	1,560	1,280	688	624	1,298	571	618	(X)	20
3	26	25	266	165	99	83	159	75	150	(S)	201
2	23	21	164	138	78	76	149	70	131	1,230	2011
(Z)	1	1	29	8	4	2	3	1	7	91	2013
(Z)	2	2	73	19	17	5	7	4	12	60	2015
4	29	16	360	103	58	38	56	34	70	846	202
1	5	1	39	10	7	3	4	3	2	15	2021
(Z)	1	1	27	4	2	(S)	(S)	(S)	(S)	(S)	2022
2	12	3	50	31	17	11	13	10	6	80	2023
(Z)	2	1	28	10	3	3	6	3	6	129	2024
1	9	10	216	49	29	19	30	17	53	599	2026
1	30	10	318	152	87	95	131	88	(S)	(S)	203
-	1	1	2	2	2	4	4	4	(S)	(D)	2031
(Z)	2	2	23	15	11	15	16	13	21	318	2032
(Z)	10	4	186	51	33	32	44	28	58	555	2033
-	(Z)	(Z)	16	30	4	3	5	3	4	41	2034
-	1	1	17	5	3	4	5	4	7	78	2035
(Z)	(Z)	(Z)	3	1	1	1	1	1	3	20	2036
(Z)	16	2	71	49	33	36	56	35	23	(S)	2037
5	37	7	45	83	50	(S)	(S)	(S)	(S)	(S)	204
-	1	(Z)	10	2	1	2	2	1	7	84	2041
(Z)	1	1	8	3	2	2	2	2	3	82	2042
(Z)	3	1	10	5	3	4	5	4	10	228	2043
5	32	5	13	72	42	43	59	39	12	249	2046
(Z)	2	1	32	9	4	5	8	4	46	(S)	205
(Z)	(Z)	1	20	2	1	3	4	2	28	277	2051
(Z)	1	1	12	7	2	2	4	2	18	307	2052
28	99	10	99	412	220	181	273	166	31	(S)	206
17	21	6	32	252	113	70	122	61	6	67	2061
11	47	3	15	74	59	63	71	60	15	180	2062
-	30	2	52	86	49	48	80	45	10	131	2063
5	12	2	36	34	18	20	34	19	30	345	207
6	54	24	231	172	93	94	158	85	102	(S)	208
6	21	18	94	94	51	48	83	43	61	1,071	2082
(Z)	3	(Z)	19	18	7	5	9	5	1	30	2083
-	2	1	14	6	4	1	1	1	1	29	2084
(Z)	26	2	34	45	26	32	45	29	18	439	2085
(Z)	1	2	63	8	5	4	5	3	18	202	2086
(Z)	(Z)	(Z)	7	2	1	4	15	4	3	74	2087
3	48	8	173	149	59	(S)	(S)	(S)	(S)	(S)	209
-	2	(Z)	9	4	2	1	3	1	(D)	(D)	2091
1	9	1	33	28	11	9	22	8	4	81	2092
1	6	1	31	11	8	4	6	4	2	26	2094
(Z)	13	3	39	50	12	19	47	18	(S)	(D)	2096
-	1	1	12	6	2	17	27	15	16	432	2095
(Z)	11	1	22	19	15						2099
(Z)	1	1	17	19	2	3	44	2	43	(X)	21
(Z)	1	1	10	18	2	2	40	2	36	1,085	2111
9	15	17	331	311	135	135	182	120	378	(X)	22
2	3	5	84	87	23	27	41	23	148	951	2211
(Z)	1	2	52	27	9	7	8	6	35	227	2221
1	(Z)	2	28	20	18	15	21	13	27	196	2231
(Z)	1	1	30	54	6	(S)	(S)	(S)	(S)	(S)	225
-	(Z)	(Z)	8	4	1	1	1	1	9	35	2251
-	(Z)	(Z)	6	1	1	2	8	1	18	95	2252
-	(Z)	(Z)	2	1	1	1	1	1	9	44	2253
-	(Z)	(Z)	1	(Z)	(Z)	1	1	1	9	48	2254
(Z)	(Z)	(Z)	13	47	3	2	2	2	5	48	2256

TABLE 2. Water Intake by Purpose, 1964, Gross Water

A. INDUSTRY GROUPS

Code	Industry group and industry	1964					
		Establishments reporting consumption of water			Water intake by purpose		
					All purposes		
		All employees (number)	Value added by manufacture, adjusted (million dollars)	Total (number)	Total (billion gallons)	Treated prior to use (billion gallons)	Process (billion gallons)
22	Textile mill products--Continued						
226	Textile finishing, except wool	47,310	391	133	59	40	48
2261	Finishing plants, cotton	30,657	249	58	37	27	31
2262	Finishing plants, synthetic	11,734	102	47	17	10	14
2269	Finishing plants, n.e.c	4,919	40	28	4	3	3
227	Floor covering mills	18,425	216	33	7	4	5
228	Yarn and thread mills	21,553	142	48	7	5	4
2281	Yarn mills, except wool	8,725	49	20	3	1	1
2283	Wool yarn mills	5,850	40	11	2	1	1
2284	Thread mills	5,704	45	12	2	2	2
229	Miscellaneous textile goods	23 688	245	56	12	3	4
2295	Coated fabric, not rubberized	6,462	90	14	4	1	(Z)
24	Lumber and wood products	65,871	574	186	151	14	56
242	Sawmills and planing mills	36,722	282	96	114	8	33
2421	Sawmills and planing mills	36,051	279	93	113	8	33
243	Millwork and related products	17,317	168	53	12	2	2
2431	Millwork plants	2,974	20	6	1	(Z)	(Z)
2432	Veneer and plywood plants	14,343	149	47	11	1	2
249	Miscellaneous wood products	9,464	113	28	9	4	6
2491	Wood preserving	1,031	8	9	1	(Z)	(Z)
2499	Wood products, n.e.c	8,433	105	19	9	4	6
25	Furniture and fixtures	34,718	307	45	3	1	1
251	Household furniture	22,424	177	23	1	(Z)	(Z)
2511	Wood furniture not upholstered	16,526	124	15	1	(Z)	(Z)
26	Paper and allied products	248,662	3,856	634	2,071	987	1,344
2611	Pulp mills	12,994	255	34	279	162	229
2621	Paper mills, except building	120,447	1,736	271	1,138	573	736
2631	Paperboard mills	56,696	1,098	183	577	232	337
264	Paper and paperboard products	31,434	416	72	42	18	20
2641	Paper coating and glazing	14,251	228	30	26	14	12
2646	Pressed and molded pulp goods	3,581	43	16	5	1	5
265	Paperboard containers and boxes	17,698	223	29	5	1	1
2654	Sanitary food containers	12,881	178	15	1	(Z)	(Z)
2661	Building paper and board mills	9,393	127	45	31	2	21
28	Chemicals and allied products	480,053	12,590	1,062	3,889	699	564
281	Basic chemicals	198,661	5,179	517	3,020	542	431
2812	Alkalies and chlorine	19,090	381	31	528	31	16
2815	Intermediate coal tar products	23,105	514	56	108	41	9
2818	Organic chemicals, n.e.c	75,385	2,394	139	1,708	348	314
2819	Inorganic chemicals, n.e.c	67,759	1,541	188	499	95	74
282	Fibers, plastics, rubbers	129,876	2,701	176	530	105	67
2821	Plastics materials and resins	49,839	1,120	114	218	38	25
2822	Synthetic rubber	11,840	330	24	61	15	11
2823	Cellulosic man-made fibers	27,222	356	18	152	33	23
2824	Organic fibers, noncellulosic	40,976	896	20	98	20	8
283	Drugs	65,894	2,214	72	65	7	5
2834	Pharmaceutical preparations	58,107	2,089	55	28	3	3
284	Cleaning and toilet goods	28,537	1,346	54	32	4	2
2841	Soap and other detergents	14,876	725	30	19	2	2
2851	Paints and allied products	12,958	297	42	5	1	1
2861	Gum and wood chemicals	4,115	77	18	26	5	2
287	Agricultural chemicals	12,181	240	73	115	18	32
2871	Fertilizers	10,028	176	59	113	18	32

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959—Continued

AND INDUSTRIES—Continued

1964--Continued						1959					Code
Water intake by purpose--Continued			Establishments recirculating or reusing water	Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	All employees	Value added by manufacture, adjusted	
Cooling and condensing		Boiler feed, sanitary service, and other uses									
Steam electric power generation (billion gallons)	Other (billion gallons)	(billion gallons)	(number)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(1,000)	(million dollars)	
3	2	5	55	67	54	57	67	50	44	(S)	226
3	2	2	33	44	34	51	61	45	38	242	2261
1	(Z)	2	16	19	16	5	5	4	5	40	2262
(Z)	(Z)	(Z)	6	4	4	1	1	1	1	15	2269
1	(Z)	1	20	23	7	5	6	4	19	214	227
1	1	1	34	13	6	(S)	(S)	(S)	(S)	(S)	228
1	(Z)	(Z)	13	6	2	3	4	3	16	83	2281
-	(Z)	(Z)	8	3	2	1	1	1	3	18	2283
-	(Z)	(Z)	8	3	2	3	5	3	6	43	2284
(Z)	7	1	26	21	12	12	15	11	26	196	229
-	3	(Z)	9	8	4	4	5	4	6	65	2295
63	8	24	121	217	123	140	184	126	75	(X)	24
56	5	19	67	157	93	122	160	111	44	331	242
56	5	19	66	157	93	120	159	110	42	321	2421
6	1	3	35	19	10	(S)	(S)	(S)	(S)	(S)	243
(Z)	(Z)	(Z)	4	1	(Z)	1	1	1	5	38	2431
6	1	3	31	18	10	13	16	11	18	138	2432
1	1	2	15	24	6	2	3	3	4	(S)	249
-	(Z)	(Z)	5	1	(Z)	1	2	1	1	5	2491
1	1	2	10	23	6	1	1	2	3	25	2499
(Z)	(Z)	1	28	4	3	3	4	2	31	(X)	25
(Z)	(Z)	1	12	2	1	(S)	(S)	(S)	(S)	(S)	251
(Z)	(Z)	(Z)	8	1	1	1	1	1	13	84	2511
420	187	120	568	6,026	1,942	1,937	6,046	1,824	282	(X)	26
12	23	15	32	892	271	267	788	263	14	207	2611
261	73	68	250	3,095	1,067	1,089	3,361	1,023	129	1,756	2621
130	81	30	172	1,845	543	478	1,569	444	54	849	2631
10	7	5	49	107	38	(S)	(S)	(S)	(S)	(S)	264
7	5	3	21	69	23	15	45	14	14	208	2641
(Z)	(Z)	(Z)	14	11	5	4	6	4	3	35	2646
1	1	1	22	11	3	(S)	(S)	(S)	(S)	(S)	265
-	(Z)	1	12	5	1	2	2	2	15	166	2654
7	2	1	43	76	25	55	120	49	18	210	2661
651	2,469	202	793	7,577	3,662	3,240	5,225	3,061	434	(X)	28
577	1,892	120	384	5,828	2,887	2,598	3,944	2,471	169	(S)	281
115	363	35	26	628	509	516	576	478	20	346	2812
1	90	8	47	277	100	134	237	130	24	436	2815
328	1,028	38	103	3,319	1,660	1,423	2,088	1,379	70	1,805	2818
108	284	33	139	1,312	447	362	840	334	41	812	2819
54	372	36	140	1,148	509	405	847	381	115	(S)	282
13	167	11	89	470	206	123	288	113	44	940	2821
-	44	5	21	182	57	38	100	35	8	243	2822
19	100	11	13	233	150	178	357	182	41	443	2823
21	60	9	17	208	96	66	102	51	22	554	2824
6	49	5	61	121	42	65	106	62	64	1,665	283
(Z)	21	4	44	79	25	23	56	21	55	1,495	2834
3	23	3	42	45	23	29	86	(S)	29	(S)	284
1	13	3	26	31	12	24	79	22	18	739	2841
(Z)	3	1	27	8	5	8	12	7	14	278	2851
1	22	2	14	117	24	(S)	(S)	(S)	(S)	(S)	2861
7	54	22	43	226	90	(S)	(S)	(S)	(S)	(S)	287
7	53	22	34	217	89	40	67	33	[2]8	[2]104	2871

TABLE 2. Water Intake by Purpose, 1964, Gross Water

A. INDUSTRY GROUPS

Code	Industry group and industry	1964					
		Establishments reporting consumption of water			Water intake by purpose		
		All employees (number)	Value added by manufacture, adjusted (million dollars)	Total (number)	All purposes		Process (billion gallons)
					Total (billion gallons)	Treated prior to use (billion gallons)	
28	Chemicals and allied products--Continued						
289	Miscellaneous chemical products	27,831	535	110	94	17	24
2891	Glue and gelatin	2,251	47	16	12	5	6
2892	Explosives	11,936	133	20	28	6	2
2899	Chemical preparations, n.e.c	10,602	271	51	36	5	4
29	Petroleum and coal products	119,334	3,066	268	1,398	168	88
2911	Petroleum refining	111,644	2,942	214	1,388	167	84
295	Paving and roofing materials	6,605	99	44	10	1	4
2951	Paving mixtures and blocks	278	5	8	1	-	1
2952	Asphalt felts and coatings	6,327	94	36	9	1	4
30	Rubber and plastics products, n.e.c	210,403	2,667	280	163	24	19
3011	Tires and inner tubes	80,320	1,266	51	60	14	9
3021	Rubber footwear	16,586	145	8	3	(Z)	(Z)
3031	Reclaimed rubber	1,328	19	5	2	(Z)	(Z)
3069	Rubber products, n.e.c	81,023	885	115	70	4	6
3079	Plastics products, n.e.c	31,146	352	102	28	6	4
31	Leather and leather products	26,016	228	85	16	2	14
3111	Leather tanning and finishing	18,275	168	81	16	2	14
32	Stone, clay, and glass products	217,780	3,180	555	249	50	88
3211	Flat glass	18,570	315	17	38	9	10
322	Pressed and blown glassware	72,362	836	98	16	7	6
3221	Glass containers	46,340	482	61	7	3	2
3229	Pressed and blown glass, n.e.c	26,022	355	37	9	4	3
3231	Products of purchased glass	6,282	123	16	5	(Z)	2
3241	Cement, hydraulic	29,410	660	145	114	9	15
325	Structural clay products	3,924	37	11	1	(Z)	(Z)
3255	Clay refractories	887	10	4	1	(Z)	(Z)
326	Pottery and related products	16,758	145	27	2	(Z)	1
3261	Vitreous plumbing fixtures	4,360	48	11	1	(Z)	(Z)
3264	Porcelain electrical supplies	6,027	58	9	1	(Z)	(Z)
327	Concrete and plaster products	15,488	268	109	17	1	13
3273	Ready mixed concrete	3,282	41	43	6	(Z)	6
3274	Lime	3,348	49	21	7	(Z)	4
3275	Gypsum products	6,475	146	34	3	1	2
3281	Cut stone and stone products	5,123	36	19	4	(Z)	4
329	Nonmetallic mineral products	49,863	760	113	51	23	36
3291	Abrasive products	17,195	296	18	4	(Z)	2
3292	Asbestos products	12,406	183	37	8	1	5
3293	Gaskets and insulations	6,693	64	9	2	(Z)	1
3295	Minerals, ground or treated	2,214	46	23	25	18	24
3296	Mineral wool	8,778	125	17	6	1	1
33	Primary metal industries	814,412	11,502	785	4,578	699	996
331	Steel rolling and finishing	520,949	7,677	296	4,051	602	885
3312	Blast furnaces and steel mills	481,867	7,175	200	3,815	598	867
3315	Steel wire drawing, etc	9,806	115	30	7	(Z)	3
3317	Steel pipe and tube	12,092	155	25	12	(Z)	8
332	Iron and steel foundries	86,647	902	133	28	2	12
3321	Gray iron foundries	51,165	532	69	20	1	11
3322	Malleable iron foundries	5,860	57	11	2	(Z)	(Z)
3323	Steel foundries	29,622	313	53	6	1	1

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959—Continued

AND INDUSTRIES—Continued

1964--Continued						1959					Code
Water intake by purpose--Continued			Establishments recirculating or reusing water	Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	All employees	Value added by manufacture, adjusted	
Cooling and condensing		Boiler feed, sanitary service, and other uses									
Steam electric power generation (billion gallons)	Other (billion gallons)	(billion gallons)	(number)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(1,000)	(million dollars)	
3	54	12	82	138	81	(S)	(S)	(S)	(S)	(S)	289
(Z)	5	1	14	16	11	9	12	7	3	52	2891
2	22	3	17	35	27	15	20	14	11	120	2892
2	23	7	39	64	33	31	52	26	8	154	2899
84	1,128	99	229	6,161	1,317	1,319	5,780	1,204	142	(X)	29
81	1,125	98	197	6,146	1,309	1,311	5,767	1,199	135	2,392	2911
2	2	1	29	14	9	(S)	(S)	(S)	(S)	(S)	295
-	(Z)	(Z)	5	1	1	(S)	(S)	(S)	(S)	(S)	2951
2	2	1	24	13	8	8	11	4	6	70	2952
18	110	15	205	336	155	127	r218	119	212	(X)	30
16	27	7	45	173	56	69	131	64	91	1,270	3011
1	1	(Z)	6	4	3	3	4	3	14	115	3021
-	2	(Z)	2	2	2	4	5	4	2	23	3031
1	59	5	93	105	67	39	62	38	79	736	3069
(Z)	21	3	59	52	27	11	r17	10	26	274	3079
1	(Z)	1	40	18	15	12	14	12	26	(X)	31
1	(Z)	1	38	18	14	12	13	11	18	153	3111
82	55	24	337	389	218	r251	r412	r264	231	(X)	32
15	9	3	17	72	37	38	69	38	25	373	3211
(Z)	7	3	65	47	16	15	44	14	71	766	322
(Z)	4	1	40	15	7	8	33	7	44	480	3221
(Z)	4	2	25	32	9	7	11	7	27	286	3229
2	1	1	8	9	5	6	7	6	8	162	3231
63	26	9	89	151	95	r135	r206	r156	(S)	719	3241
-	(Z)	(Z)	7	1	1	(S)	(S)	(S)	(S)	(S)	325
-	(Z)	(Z)	3	1	1	(S)	(S)	(S)	(S)	(S)	3255
(Z)	1	1	17	6	2	2	3	2	17	554	326
(Z)	1	(Z)	7	4	1	1	1	1	4	48	3261
-	(Z)	(Z)	7	1	(Z)	(S)	(S)	(S)	(S)	(S)	3264
-	1	3	50	25	13	12	r15	8	13	206	327
-	(Z)	(Z)	13	8	6	2	2	2	1	16	3273
-	1	2	14	12	5	4	r5	1	3	32	3274
-	(Z)	1	16	3	2	6	7	5	7	145	3275
-	(Z)	(Z)	8	5	4	3	3	3	3	18	3281
1	8	5	76	72	46	40	67	36	48	611	329
(Z)	2	1	11	6	4	4	5	4	17	223	3291
1	1	1	32	15	7	7	20	5	17	211	3292
1	1	(Z)	6	3	2	3	6	2	3	22	3293
-	(Z)	(Z)	9	29	24	11	15	11	1	17	3295
(Z)	3	2	12	13	4	7	14	6	7	92	3296
1,380	2,007	195	581	6,778	4,312	3,702	5,673	3,551	852	(X)	33
1,099	1,909	159	237	5,806	3,810	(S)	(S)	(S)	(S)	(S)	331
976	1,822	149	170	5,510	3,576	2,994	4,571	2,876	496	6,552	3312
(Z)	3	1	18	8	6	3	5	3	12	132	3315
1	2	1	20	18	11	7	10	7	14	213	3317
(Z)	10	6	81	45	25	42	60	37	94	(S)	332
(Z)	7	3	34	30	18	24	33	22	49	460	3321
(Z)	1	1	9	4	2	10	15	8	14	111	3322
(Z)	2	2	38	10	6	8	12	7	31	293	3323

TABLE 2. Water Intake by Purpose, 1964, Gross Water

A. INDUSTRY GROUPS

Code	Industry group and industry	1964					
		Establishments reporting consumption of water			Water intake by purpose		
		All employees (number)	Value added by manufacture, adjusted (million dollars)	Total (number)	All purposes		Process (billion gallons)
					Total (billion gallons)	Treated prior to use (billion gallons)	
33	Primary metal industries--Continued						
333	Primary nonferrous metal	42,054	900	72	386	83	54
3331	Primary copper	9,337	213	21	32	3	17
3332	Primary lead	2,299	24	7	5	(Z)	(Z)
3334	Primary aluminum	17,189	470	20	197	10	13
3341	Secondary nonferrous metals	2,695	35	17	2	(Z)	1
335	Nonferrous rolling and drawing	117,624	1,502	167	83	10	38
3351	Copper rolling and drawing	34,041	415	52	36	7	19
3352	Aluminum rolling and drawing	35,382	441	41	24	1	7
3356	Rolling and drawing, n.e.c	12,172	177	17	13	1	5
3357	Nonferrous wire drawing, etc	36,029	469	57	10	1	6
336	Nonferrous foundries	16,954	185	42	8	1	3
3361	Aluminum castings	10,460	118	23	4	(Z)	2
3362	Brass, bronze, copper castings	3,018	30	9	2	(Z)	(Z)
3369	Nonferrous castings, n.e.c	3,476	37	10	1	(Z)	1
339	Primary metal industries, n.e.c	27,489	300	58	20	2	2
34	Fabricated metal products	257,542	3,205	485	57	6	30
3411	Metal cans	16,855	225	26	1	(Z)	(Z)
342	Cutlery, hand tools, hardware	59,650	875	67	14	1	8
3421	Cutlery	5,034	128	6	2	(Z)	(Z)
3423	Hand and edge tools	7,708	86	12	1	(Z)	1
3429	Hardware, n.e.c	45,307	634	46	10	1	7
343	Plumbing and heating, except electric	19,970	252	37	4	1	1
3431	Metal plumbing fixtures	6,897	85	12	2	(Z)	(Z)
3432	Plumbing fittings, brass goods	5,661	59	13	1	(Z)	1
3433	Heating equipment, except electric	7,412	108	12	1	(Z)	1
344	Structural metal products	45,825	486	75	14	1	7
3441	Fabricated structural steel	9,987	70	9	1	(Z)	(Z)
3442	Metal doors, sash, and trim	6,348	65	15	2	(Z)	1
3443	Boiler shop products	21,925	259	33	10	1	5
3444	Sheetmetal work	5,443	64	12	1	1	1
345	Screw machine products, bolts, etc	25,298	298	42	5	(Z)	3
3461	Metal stampings	35,488	418	63	7	1	4
347	Metal services, n.e.c	6,066	57	81	5	(Z)	4
3471	Plating and polishing	4,917	44	75	5	(Z)	4
3481	Fabricated wire products, n.e.c	7,979	78	21	2	(Z)	1
349	Fabricated metal products, n.e.c	40,411	517	73	6	1	2
3494	Valves and pipe fittings	25,837	312	36	3	(Z)	1
35	Machinery, except electrical	531,286	6,560	400	157	13	23
351	Engines and turbines	69,389	927	37	56	1	3
3522	Farm machinery and equipment	59,800	728	38	38	1	4
353	Construction and like equipment	87,826	1,241	60	12	6	6
3531	Construction machinery	60,562	815	32	7	3	4
3533	Oil field machinery	8,267	121	10	1	(Z)	(Z)
354	Metalworking machinery	55,840	658	55	6	(Z)	1
3541	Metal-cutting machine tools	25,537	268	19	2	(Z)	(Z)
3544	Special dies and tools	4,369	62	7	1	(Z)	(Z)
3545	Machine tool accessories	10,335	131	13	2	(Z)	(Z)
3548	Metalworking machinery, n.e.c	11,937	151	12	1	(Z)	(Z)
355	Special industry machinery	37,725	410	37	6	(Z)	1
3552	Textile machinery	16,250	138	12	2	(Z)	1
3559	Special industry machines, n.e.c	10,630	115	12	3	(Z)	(Z)
356	General industrial machinery	88,848	1,056	87	17	1	2
3561	Pumps and compressors	23,585	264	24	9	1	(Z)
3562	Ball and roller bearings	36,415	447	28	3	(Z)	1
3566	Power transmission equipment	14,556	183	18	3	(Z)	1
3569	General industry machines, n.e.c	9,860	110	10	2	(Z)	(Z)

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959—Continued

AND INDUSTRIES—Continued

1964--Continued						1959					Code
Water intake by purpose--Continued			Establishments recirculating or reusing water	Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	All employees	Value added by manufacture, adjusted	
Cooling and condensing		Boiler feed, sanitary service, and other uses									
Steam electric power generation (billion gallons)	Other (billion gallons)	(billion gallons)	(number)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(1,000)	(million dollars)	
266	46	19	65	704	370	(S)	(S)	(S)	(S)	(S)	333
3	11	2	18	161	26	47	150	36	11	95	3331
(Z)	3	1	7	11	4	4	7	3	2	25	3332
154	15	14	16	335	191	177	305	172	15	408	3334
-	1	(Z)	8	4	2	4	5	3	4	22	3341
8	29	8	129	167	79	92	161	87	134	(S)	335
8	7	2	44	59	34	30	42	30	36	465	3351
(Z)	14	3	29	64	23	38	72	35	44	530	3352
-	6	2	14	20	12	9	24	8	12	147	3356
(Z)	2	2	42	24	9	15	23	14	42	481	3357
-	3	1	27	19	8	(S)	(S)	(S)	(S)	(S)	336
-	1	1	13	9	4	2	4	2	10	84	3361
-	2	(Z)	7	2	2	(S)	(S)	(S)	(S)	(S)	3362
-	(Z)	(Z)	7	9	1	1	1	1	5	43	3369
6	9	3	34	34	18	7	14	6	26	248	339
1	15	11	265	123	53	44	71	41	316	(X)	34
-	1	1	16	3	1	3	5	3	35	406	3411
1	3	2	44	28	13	11	17	9	58	(S)	342
(Z)	1	(Z)	5	4	2	1	1	1	4	85	3421
-	(Z)	(Z)	10	2	1	2	3	1	9	101	3423
(Z)	1	1	28	21	9	7	12	6	43	457	3429
(Z)	1	1	25	7	4	4	8	2	(S)	(S)	343
(Z)	1	1	10	4	1	2	5	1	(S)	(D)	3431
(Z)	(Z)	(Z)	6	1	1	1	1	(Z)	7	62	3432
-	(Z)	1	9	2	1	1	2	1	11	123	3433
(Z)	5	2	42	36	12	8	14	7	60	517	344
(Z)	(Z)	1	3	1	1	1	1	1	11	77	3441
-	1	(Z)	10	3	2	2	4	2	10	93	3442
(Z)	4	1	24	30	8	4	8	4	30	264	3443
(Z)	(Z)	(Z)	5	1	1	(S)	(S)	(S)	(S)	(S)	3444
(Z)	1	1	25	7	5	5	7	3	30	(S)	345
(Z)	2	2	34	28	7	8	11	8	41	414	3461
(Z)	(Z)	(Z)	29	6	5	(S)	(S)	(S)	(S)	(S)	347
(Z)	(Z)	(Z)	28	5	5	(S)	(S)	(S)	(S)	(S)	3471
(Z)	(Z)	(Z)	8	2	1	2	2	1	11	95	3481
(Z)	2	2	42	8	5	6	7	6	53	570	349
(Z)	1	1	24	3	3	4	4	3	37	389	3494
58	53	23	257	287	149	171	251	165	514	(X)	35
23	27	4	28	69	55	85	94	84	73	(S)	351
27	3	3	23	45	36	39	50	39	66	774	3522
(Z)	2	3	42	62	11	(S)	(S)	(S)	(S)	(S)	353
(Z)	2	2	23	32	7	7	18	6	66	735	3531
(Z)	(Z)	(Z)	6	25	1	1	20	1	9	119	3533
(Z)	2	2	30	8	5	5	10	4	49	506	354
(Z)	(Z)	1	12	2	2	1	3	1	19	182	3541
-	(Z)	1	3	1	1	(S)	(S)	(S)	(S)	(S)	3544
-	1	(Z)	6	3	1	(S)	(S)	(S)	(S)	(S)	3545
(Z)	1	(Z)	9	2	1	1	2	1	10	93	3548
2	1	1	17	9	3	8	9	5	30	224	355
(Z)	(Z)	(Z)	6	2	2	4	4	4	11	74	3552
2	(Z)	(Z)	4	6	1	(S)	(S)	(S)	(S)	(S)	3559
3	8	4	58	39	17	8	16	8	82	929	356
3	4	1	16	10	8	1	3	1	19	190	3561
(Z)	2	1	22	21	3	4	9	4	36	458	3562
-	2	(Z)	9	4	3	2	2	2	15	156	3566
(Z)	1	1	5	3	2	1	2	1	7	67	3569

TABLE 2. Water Intake by Purpose, 1964, Gross Water

A. INDUSTRY GROUPS

Code	Industry group and industry	1964					
		Establishments reporting consumption of water			Water intake by purpose		
		All employees (number)	Value added by manufacture, adjusted (million dollars)	Total (number)	All purposes: Total (billion gallons)	All purposes: Treated prior to use (billion gallons)	Process (billion gallons)
35	Machinery, except electrical--Continued						
357	Office machines, n.e.c.	79,398	859	27	14	1	2
3572	Typewriters	15,229	210	8	1	(Z)	1
358	Service industry machines	40,989	531	43	6	1	3
3585	Refrigeration machinery	33,494	437	31	5	1	2
3599	Miscellaneous machinery	11,471	149	16	2	(Z)	1
36	Electrical machinery	800,416	9,637	470	105	15	28
361	Electric distribution products	60,435	781	45	11	1	2
3611	Electric measuring instruments	16,099	188	10	2	(Z)	1
3612	Transformers	22,196	267	17	4	(Z)	(Z)
3613	Switchgear and switchboards	22,140	326	18	5	1	1
362	Electric industrial apparatus	73,382	918	65	21	3	3
3621	Motors and generators	54,410	639	40	16	2	2
3622	Industrial controls	10,358	153	8	1	(Z)	(Z)
363	Household appliances	93,117	1,494	62	21	3	9
3631	Household cooking equipment	5,781	68	7	1	(Z)	(Z)
3632	Household refrigerators	39,976	613	14	12	2	4
3633	Household laundry equipment	16,264	336	12	2	(Z)	1
3634	Electric housewares and fans	17,667	257	18	4	(Z)	3
3639	Household appliances, n.e.c.	4,878	88	6	1	(Z)	(Z)
364	Lighting and wiring devices	44,477	581	57	7	1	4
3642	Lighting fixtures	10,304	142	12	2	(Z)	1
3643	Current carrying devices	15,266	181	16	2	(Z)	1
365	Radio and TV receiving equipment	34,862	394	19	4	(Z)	1
366	Communication equipment	317,574	3,633	76	19	2	3
367	Electronic components	134,770	1,273	100	14	3	5
3671	Electron tubes, receiving type	15,602	160	9	1	(Z)	(Z)
3672	Cathode ray picture tubes	6,126	62	6	1	1	1
3673	Electron tubes, transmitting	15,947	201	12	3	(Z)	(Z)
3674	Semiconductors	38,786	313	23	4	2	1
3679	Electronic components, n.e.c.	58,309	537	50	5	1	3
369	Electrical products, n.e.c.	41,799	564	46	8	1	2
3691	Storage batteries	6,302	96	20	2	(Z)	1
3694	Engine electrical equipment	29,070	397	15	4	1	1
37	Transportation equipment	205,556	18,779	417	247	31	58
371	Motor vehicles and equipment	550,987	10,983	243	127	17	39
3717	Motor vehicles and parts	541,173	10,866	237	125	16	39
372	Aircraft and parts	531,061	6,579	109	96	13	16
3722	Aircraft engines and parts	138,944	1,633	36	60	6	7
3729	Aircraft equipment, n.e.c.	103,901	1,238	43	11	3	4
373	Ship and boat building	82,485	746	35	16	1	1
3731	Ship building and repairing	82,485	746	35	16	1	1
374	Railroad equipment	34,419	416	22	7	1	1
3751	Motorcycles, bicycles, and parts	6,604	55	8	1	(Z)	1
38	Instruments and related products	145,579	2,111	98	29	12	12
3811	Scientific instruments	15,136	183	10	1	(Z)	(Z)
382	Mechanical measuring devices	46,236	555	31	5	1	2
3821	Mechanical measuring devices	24,795	286	17	3	(Z)	2
3822	Automatic temperature controls	21,441	269	14	1	1	1
384	Medical instruments and supplies	10,822	170	14	3	(Z)	1
3861	Photographic equipment	45,566	939	23	14	10	7

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959—Continued

AND INDUSTRIES—Continued

1964--Continued						1959					Code
Water intake by purpose--Continued			Establishments recirculating or reusing water	Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	All employees	Value added by manufacture, adjusted	
Cooling and condensing		Boiler feed, sanitary service, and other uses									
Steam electric power generation (billion gallons)	Other (billion gallons)	(billion gallons)	(number)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(1,000)	(million dollars)	
2	8	3	18	38	14	11	20	10	77	775	357
-	(Z)	(Z)	3	3	1	(S)	(S)	(S)	(S)	(S)	3572
(Z)	1	2	28	15	6	4	9	4	39	440	358
-	1	2	21	14	5	4	8	4	35	388	3585
-	1	(Z)	13	3	2	3	5	3	16	161	3599
15	38	24	338	266	91	93	159	88	567	(X)	36
4	4	2	36	22	10	15	27	15	62	765	361
-	1	(Z)	9	3	2	1	2	1	17	212	3611
1	2	1	13	11	4	9	18	9	24	311	3612
3	1	1	14	8	5	5	7	5	21	242	3613
5	7	6	47	33	20	(S)	(S)	(S)	(S)	(S)	362
5	5	5	32	27	16	8	17	8	64	649	3621
(Z)	(Z)	(Z)	6	2	1	1	2	1	17	236	3622
(Z)	9	3	40	30	14	18	25	15	94	1,088	363
(Z)	(Z)	(Z)	4	1	1	1	1	1	7	94	3631
(Z)	7	1	10	17	5	12	16	10	40	378	3632
(Z)	1	(Z)	10	5	2	3	4	3	20	293	3633
-	1	1	8	5	4	1	2	1	14	204	3634
-	(Z)	(Z)	4	1	1	(S)	(S)	(S)	(S)	(S)	3639
(Z)	2	1	32	9	7	6	9	6	35	(S)	364
-	(Z)	(Z)	7	3	2	2	2	2	8	91	3642
(Z)	(Z)	(Z)	12	2	2	2	2	2	11	100	3643
(Z)	1	1	11	7	3	3	6	3	31	(S)	365
5	5	5	65	81	18	26	44	25	123	(S)	366
(Z)	5	4	72	61	12	9	16	9	87	(S)	367
-	(Z)	(Z)	8	6	1	1	4	1	24	187	3671
(Z)	1	(Z)	5	2	1	1	1	1	5	56	3672
-	1	1	8	6	2	2	3	2	10	98	3673
(Z)	1	1	20	37	3	5	8	5	48	(S)	3674
(Z)	2	1	31	10	5	5	8	5	48	418	3679
(Z)	4	2	35	22	6	5	9	5	41	499	369
-	1	(Z)	15	4	2	2	2	1	7	72	3691
-	2	1	13	9	3	3	5	3	28	347	3694
12	90	86	315	663	237	260	522	229	1,285	(X)	37
1	20	67	189	422	121	125	297	119	526	7,853	371
1	20	66	186	395	120	125	297	118	517	7,761	3717
5	64	11	94	204	92	(S)	(S)	(S)	(S)	(S)	372
3	45	4	28	108	59	76	96	54	117	1,251	3722
2	3	2	38	27	11	12	29	11	143	1,358	3729
5	3	7	15	19	15	23	32	23	93	756	373
5	3	7	15	19	15	(S)	(S)	(S)	(S)	(S)	3731
2	3	1	11	17	7	8	15	7	31	(S)	374
-	(Z)	(Z)	6	2	1	1	1	1	6	47	3751
3	7	7	79	76	26	23	60	22	153	(X)	38
-	1	-	6	2	1	2	5	2	37	357	3811
(Z)	1	2	25	6	5	4	4	4	41	419	382
(Z)	(Z)	1	14	4	3	1	1	1	21	208	3821
-	1	(Z)	11	2	1	3	3	3	20	211	3822
-	1	1	10	3	3	1	2	1	9	128	384
(Z)	4	3	22	52	12	11	45	10	40	678	3861

TABLE 2. Water Intake by Purpose, 1964, Gross Water

A. INDUSTRY GROUPS

Code	Industry group and industry	1964					
		Establishments reporting consumption of water			Water intake by purpose		
		All employees (number)	Value added by manufacture, adjusted (million dollars)	Total (number)	All purposes		Process (billion gallons)
					Total (billion gallons)	Treated prior to use (billion gallons)	
38	Instruments and related products--Con.						
387	Watches, clocks, and watchcases	16,623	164	11	1	(Z)	(Z)
3871	Watches and clocks	16,623	164	11	1	(Z)	(Z)
39	Miscellaneous manufacturing	43,298	529	76	13	2	5
391	Jewelry and silverware	8,939	94	14	4	(Z)	1
3914	Silverware and plated ware	5,387	57	9	4	(Z)	1
394	Toys and sporting goods	12,808	142	21	3	1	1
3941	Games and toys	6,966	70	8	1	(Z)	(Z)
396	Costume jewelry and notions	6,475	60	13	2	(Z)	2
3964	Needles, pins, and fasteners	2,653	27	7	1	(Z)	1
398 399	Miscellaneous manufactures	10,608	175	20	3	1	1

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries whether or not separate figures are shown for the individual industries.

- Represents zero.
(D) Withheld to avoid disclosing figures for individual companies.
(NA) Not available.
[r]Revised
(S) Figures did not meet publication standards.
(X) Not applicable.
(Z) Less than 500 million gallons.

[1]Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 23 and 27. In 1959, such establishments had total water intake of 23 billion gallons, gross water use of 58 billion gallons, discharge of 22 billion gallons of water, and 152 thousand employees. Data for Major Group 19 is included in all total figures but was considered too insignificant to publish.

[2]Includes figures for Standard Industrial Classification 2872, Fertilizers, Mixing only.

Used, and Water Discharged, 1964 and 1959—Continued

AND INDUSTRIES—Continued

1964--Continued						1959					Code
Water intake by purpose--Continued			Establishments recirculating or reusing water	Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	All employees	Value added by manufacture, adjusted	
Cooling and condensing		Boiler feed, sanitary service, and other uses									
Steam electric power generation (billion gallons)	Other (billion gallons)	(billion gallons)	(number)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(1,000)	(million dollars)	
(Z)	(Z)	1	10	3	1	(S)	(S)	(S)	(S)	(S)	387
(Z)	(Z)	1	10	3	1	1	1	1	14	134	3871
3	4	1	38	22	12	14	20	13	45	(X)	39
3	(Z)	(Z)	8	5	4	5	5	4	9	77	391
3	(Z)	(Z)	5	5	3	(S)	(S)	(S)	(S)	(S)	3914
-	1	(Z)	9	4	2	(S)	(S)	(S)	(S)	(S)	394
-	1	(Z)	4	1	1	1	1	1	6	44	3941
-	(Z)	(Z)	7	2	2	1	1	1	7	56	396
-	(Z)	(Z)	4	2	1	(S)	(S)	(S)	(S)	(S)	3964
1	2	1	6	10	3	2	6	2	8	128	398 399

TABLE 2. Water Intake by Purpose, 1964, Gross Water

B. WATER USE REGIONS, MAJOR INDUSTRY

Code	Water use regions, major industry groups, and industries	1964					
		Establishments reporting consumption of water			Water intake by purpose		
		All employees (number)	Value added by manufacture, adjusted (million dollars)	Total (number)	All purposes		Process (billion gallons)
					Total (billion gallons)	Treated prior to use (billion gallons)	
	United States, total[1]	6,396,906	94,706	8,925	14,045	2,932	3,703
	New England	468,441	5,352	699	530	169	259
20	Food and kindred products	14,904	231	60	16	3	3
2026	Fluid milk	1,646	26	10	1	(Z)	(Z)
2037	Frozen fruits and vegetables	1,313	10	4	1	1	1
2082	Malt liquors	1,758	30	6	3	1	1
2099	Food preparations, n.e.c	212	4	3	1	(Z)	(Z)
22	Textile mill products	34,911	277	102	27	9	20
2221	Weaving mills, synthetics	3,588	25	7	2	(Z)	1
2231	Weaving, finishing mills, wool	8,337	70	31	10	3	8
2261	Finishing plants, cotton	5,135	37	14	6	3	6
2262	Finishing plants, synthetic	2,488	20	12	4	1	3
2297	Scouring and combing plants	2,503	21	9	1	(Z)	1
26	Paper and allied products	37,116	453	112	240	139	189
2621	Paper mills, except building	25,687	330	72	196	122	152
2631	Paperboard mills	2,674	31	21	11	3	9
2641	Paper coating and glazing	2,280	33	6	1	(Z)	(Z)
28	Chemicals and allied products	16,062	296	45	61	5	7
2815	Intermediate coal tar products	808	18	4	2	(Z)	(Z)
2821	Plastics materials and resins	6,118	85	13	9	1	2
30	Rubber and plastics products, n.e.c	33,849	350	51	22	2	3
3011	Tires and inner tubes	3,515	47	4	2	(Z)	1
3021	Rubber footwear	13,363	128	6	3	(Z)	(Z)
3069	Rubber products, n.e.c	14,062	149	25	14	1	2
3079	Plastics products, n.e.c	2,909	26	16	3	1	(Z)
31	Leather and leather products	5,053	41	18	4	(Z)	3
3111	Leather tanning and finishing	5,053	41	18	4	(Z)	3
32	Stone, clay, and glass products	8,480	129	22	3	(Z)	1
3273	Ready mixed concrete	127	3	7	1	-	1
33	Primary metal industries	31,475	356	66	42	5	18
3312	Blast furnaces and steel mills	2,599	32	4	8	(Z)	2
3315	Steel wire drawing, etc	3,398	42	10	1	(Z)	(Z)
3316	Cold finishing of steel shapes	2,557	33	6	2	(Z)	1
3351	Copper rolling and drawing	11,104	134	20	21	3	9
3357	Nonferrous wire drawing, etc	7,117	74	15	2	1	1
34	Fabricated metal products	25,092	329	48	6	(Z)	3
3421	Cutlery	3,582	107	4	2	(Z)	(Z)
3429	Hardware, n.e.c	7,918	77	7	1	(Z)	1
3452	Bolts, nuts, rivets, and washers	3,403	34	6	1	(Z)	(Z)
3471	Plating and polishing	783	6	11	1	(Z)	1
3494	Valves and pipe fittings	2,422	29	3	(Z)	(Z)	(Z)
35	Machinery, except electrical	62,690	681	44	30	1	1
3541	Metal-cutting machine tools	9,934	100	7	1	(Z)	(Z)
36	Electrical machinery	72,624	831	52	8	1	2
3643	Current carrying devices	5,664	66	8	1	(Z)	(Z)
3662	Radio, TV communications equipment	20,247	226	6	1	(Z)	(Z)
3679	Electronic components, n.e.c	10,434	67	7	1	(Z)	1
37	Transportation equipment	75,995	831	20	53	4	3
38	Instruments and related products	21,263	247	17	7	(Z)	2
39	Miscellaneous manufacturing	17,026	182	26	7	(Z)	3
	Delaware and Hudson	736,659	11,337	969	1,256	233	194
20	Food and kindred products	75,834	1,380	183	58	8	14
2011	Meat slaughtering plants	3,656	45	10	2	(Z)	1
2013	Meat processing plants	2,265	32	9	1	(Z)	(Z)
2015	Poultry dressing plants	2,235	10	8	1	-	1
2026	Fluid milk	6,165	81	28	2	(Z)	1
2033	Canned fruits and vegetables	2,202	22	13	1	(Z)	1
2062	Cane sugar refining	3,690	87	5	15	(Z)	1
2071	Confectionery products	7,039	89	8	1	(Z)	(Z)
2082	Malt liquors	14,627	282	19	9	1	3
2086	Bottled and canned soft drinks	2,633	35	11	1	(Z)	(Z)
2087	Flavorings	965	67	4	1	(Z)	(Z)

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959

GROUPS, AND INDUSTRIES

1964--Continued						1959					Code
Water intake by purpose--Continued			Establishments recirculating or reusing water	Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	All employees	Value added by manufacture, adjusted	
Cooling and condensing		Boiler feed, sanitary service, and other uses									
Steam electric power generation (billion gallons)	Other (billion gallons)	(billion gallons)	(number)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(1,000)	(million dollars)	
2,856	6,529	959	6,142	30,599	13,157	12,131	26,257	11,445	6,560	(X)	
94	139	38	443	909	482	556	843	494	499	5,152	
2	10	2	42	21	15	19	23	18	21	221	20
-	(Z)	(Z)	7	1	1	(S)	(S)	(S)	(S)	(S)	2026
(Z)	(Z)	(Z)	3	3	1	(S)	(S)	(S)	(S)	(S)	2037
-	2	1	4	4	3	(S)	(S)	(S)	(S)	(S)	2082
-	(Z)	(Z)	-	1	(Z)	(S)	(S)	(S)	(S)	(S)	2099
3	2	2	45	29	26	28	31	25	44	407	22
-	(Z)	(Z)	5	2	2	(S)	(S)	(S)	(S)	(S)	2221
1	(Z)	1	14	10	9	(S)	(S)	(S)	(S)	(S)	2231
(Z)	(Z)	(Z)	5	7	6	10	11	9	7	42	2261
1	(Z)	(Z)	4	4	4	(S)	(S)	(S)	(S)	(S)	2262
(Z)	(Z)	(Z)	5	1	1	(S)	(S)	(S)	(S)	(S)	2297
26	11	15	93	527	226	243	475	214	40	515	26
25	9	11	63	437	186	185	354	158	27	386	2621
1	(Z)	1	17	23	8	11	41	10	3	32	2631
-	(Z)	(Z)	4	1	(Z)	(S)	(S)	(S)	(S)	(S)	2641
14	36	5	33	81	38	45	54	42	13	235	28
-	1	(Z)	3	3	2	(S)	(S)	(S)	(S)	(S)	2815
-	7	1	9	15	8	(S)	(S)	(S)	(S)	(S)	2821
2	16	1	35	47	21	24	34	23	37	363	30
-	1	(Z)	3	4	2	(S)	(S)	(S)	(S)	(S)	3011
1	1	(Z)	4	4	2	(S)	(S)	(S)	(S)	(S)	3021
1	11	1	21	20	13	16	24	16	18	163	3069
(Z)	3	(Z)	7	19	3	(S)	(S)	(S)	(S)	(S)	3079
(Z)	(Z)	(Z)	6	5	3	4	4	3	5	39	31
(Z)	(Z)	(Z)	6	5	3	(S)	(S)	(S)	(S)	(S)	3111
(Z)	1	(Z)	10	4	3	4	5	4	9	106	32
-	-	(Z)	1	1	(Z)	(S)	(S)	(S)	(S)	(S)	3273
10	11	3	48	58	40	35	44	35	39	419	33
2	4	1	3	9	8	(S)	(S)	(S)	(S)	(S)	3312
-	(Z)	(Z)	7	1	1	(S)	(S)	(S)	(S)	(S)	3315
(Z)	1	(Z)	4	2	2	(S)	(S)	(S)	(S)	(S)	3316
8	3	1	18	34	19	15	21	15	13	152	3351
-	1	(Z)	11	4	2	(S)	(S)	(S)	(S)	(S)	3357
1	2	1	19	9	6	5	6	5	32	317	34
(Z)	1	(Z)	3	3	2	(S)	(S)	(S)	(S)	(S)	3421
(Z)	(Z)	(Z)	4	2	1	(S)	(S)	(S)	(S)	(S)	3429
-	(Z)	(Z)	1	1	1	(S)	(S)	(S)	(S)	(S)	3452
(Z)	(Z)	(Z)	2	1	1	(S)	(S)	(S)	(S)	(S)	3471
(Z)	(Z)	(Z)	3	(Z)	(Z)	(S)	(S)	(S)	(S)	(S)	3494
25	2	2	23	38	28	33	38	30	63	563	35
(Z)	(Z)	(Z)	6	1	1	(S)	(S)	(S)	(S)	(S)	3541
1	3	1	35	11	8	14	22	14	54	506	36
-	(Z)	(Z)	7	1	1	(S)	(S)	(S)	(S)	(S)	3643
-	(Z)	(Z)	6	1	1	(S)	(S)	(S)	(S)	(S)	3662
-	(Z)	(Z)	4	1	1	(S)	(S)	(S)	(S)	(S)	3679
5	42	2	17	56	52	68	69	47	83	811	37
3	1	1	14	9	7	5	6	5	15	192	38
2	1	1	16	8	6	10	11	9	33	355	39
202	781	80	688	2,347	1,200	1,276	2,450	1,215	835	10,731	
6	31	7	138	85	54	75	386	68	91	1,305	20
(Z)	(Z)	(Z)	10	3	2	(S)	(S)	(S)	(S)	(S)	2011
(Z)	(Z)	(Z)	6	1	(Z)	(S)	(S)	(S)	(S)	(S)	2013
(Z)	(Z)	(Z)	3	1	1	(S)	(S)	(S)	(S)	(S)	2015
(Z)	1	1	19	3	3	(S)	(S)	(S)	(S)	(S)	2026
(Z)	(Z)	(Z)	11	1	1	(S)	(S)	(S)	(S)	(S)	2033
5	8	(Z)	4	19	14	25	28	23	7	77	2062
(Z)	1	(Z)	7	3	1	(S)	(S)	(S)	(S)	(S)	2071
(Z)	4	2	16	14	8	(S)	(S)	(S)	(S)	(S)	2082
(Z)	(Z)	(Z)	9	1	(Z)	(S)	(S)	(S)	(S)	(S)	2086
(Z)	(Z)	(Z)	3	1	1	(S)	(S)	(S)	(S)	(S)	2087

TABLE 2. Water Intake by Purpose, 1964, Gross Water

B. WATER USE REGIONS, MAJOR INDUSTRY

Code	Water use regions, major industry groups, and industries	1964					
		Establishments reporting consumption of water			Water intake by purpose		
					All purposes		
		All employees (number)	Value added by manufacture, adjusted (million dollars)	Total (number)	Total (billion gallons)	Treated prior to use (billion gallons)	Process (billion gallons)
	Delaware and Hudson—Continued						
22	Textile mill products	17,637	155	69	14	7	11
2231	Weaving, finishing mills, wool	1,708	13	7	1	(Z)	(Z)
2256	Knit fabric mills	2,914	31	13	2	1	1
2261	Finishing plants, cotton	2,142	19	7	3	3	2
2262	Finishing plants, synthetic	2,797	27	17	5	2	5
2269	Finishing plants, n.e.c	663	5	6	1	(Z)	1
26	Paper and allied products	21,891	331	79	121	44	59
2621	Paper mills, except building	9,383	128	38	99	38	46
2631	Paperboard mills	3,786	52	22	12	4	9
2661	Building paper and board mills	562	7	4	5	(Z)	1
28	Chemicals and allied products	98,518	2,690	177	264	121	33
2815	Intermediate coal tar products	10,978	210	21	45	31	4
2816	Inorganic pigments	4,700	125	10	41	12	3
2818	Organic chemicals, n.e.c	12,272	255	23	71	46	8
2819	Inorganic chemicals, n.e.c	4,089	90	20	24	12	3
2821	Plastics materials and resins	13,892	252	27	30	13	6
2834	Pharmaceutical preparations	25,323	1,067	19	9	1	1
2841	Soap and other detergents	1,904	64	6	3	(Z)	(Z)
2892	Explosives	3,648	44	4	1	(Z)	(Z)
2899	Chemical preparations, n.e.c	996	19	7	1	(Z)	(Z)
29	Petroleum and coal products	16,947	389	22	359	20	25
2911	Petroleum refining	15,621	367	15	358	19	24
30	Rubber and plastics products, n.e.c	22,441	277	47	9	1	1
3069	Rubber products, n.e.c	11,688	119	20	6	(Z)	(Z)
31	Leather and leather products	3,659	32	17	2	(Z)	2
32	Stone, clay, and glass products	27,130	338	60	39	12	15
3221	Glass containers	9,034	88	9	2	1	1
3241	Cement, hydraulic	3,861	65	19	21	3	2
33	Primary metal industries	75,877	1,027	98	300	12	23
3312	Blast furnaces and steel mills	38,520	591	18	263	10	15
3321	Gray iron foundries	2,046	25	5	1	(Z)	1
3323	Steel foundries	2,251	22	6	1	(Z)	(Z)
3331	Primary copper	1,539	16	3	3	(Z)	1
3341	Secondary nonferrous metals, n.e.c	1,452	15	6	1	(Z)	(Z)
3351	Copper rolling and drawing	5,291	63	10	4	(Z)	2
3357	Nonferrous wire drawing, etc	9,942	107	20	4	(Z)	3
34	Fabricated metal products	29,397	353	44	11	1	5
3452	Bolts, nuts, rivets, and washers	5,815	64	6	1	(Z)	(Z)
3461	Metal stampings	7,485	85	8	1	(Z)	(Z)
35	Machinery, except electrical	62,907	792	35	43	1	1
36	Electrical machinery	141,883	1,512	70	20	3	3
3613	Switchgear and switchboards	9,280	118	5	1	(Z)	(Z)
3662	Radio, TV communications equipment	64,060	676	14	10	1	(Z)
3674	Semiconductors	11,429	91	6	1	1	(Z)
3679	Electronic components, n.e.c	8,936	76	6	1	(Z)	(Z)
3691	Storage batteries	2,507	34	7	1	(Z)	(Z)
37	Transportation equipment	106,867	1,602	31	10	2	3
3717	Motor vehicles and parts	28,645	693	13	3	1	2
3722	Aircraft engines and parts	11,309	126	4	1	(Z)	(Z)
3729	Aircraft equipment, n.e.c	8,710	95	4	1	(Z)	(Z)
3731	Ship building and repairing	10,771	80	5	3	(Z)	(Z)
38	Instruments and related products	22,853	322	17	2	1	1
3861	Photographic equipment	3,782	60	5	1	1	(Z)
39	Miscellaneous manufacturing	9,262	98	15	3	1	(Z)
	Chesapeake Bay	320,308	4,382	438	757	402	150
20	Food and kindred products	38,393	587	138	29	2	5
2011	Meat slaughtering plants	3,422	30	10	1	(Z)	(Z)
2023	Condensed and evaporated milk	277	6	6	1	(Z)	(Z)
2026	Fluid milk	4,017	50	19	2	(Z)	(Z)
2033	Canned fruits and vegetables	4,339	82	14	1	(Z)	1
2037	Frozen fruits and vegetables	3,098	56	7	1	(Z)	(Z)
2082	Malt liquors	2,439	42	11	2	1	1

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959—Continued

GROUPS, AND INDUSTRIES—Continued

1964--Continued						1959					Code
Water intake by purpose--Continued			Establishments recirculating or reusing water	Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	All employees	Value added by manufacture, adjusted	
Cooling and condensing		Boiler feed, sanitary service, and other uses									
Steam electric power generation (billion gallons)	Other (billion gallons)	(billion gallons)	(number)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(1,000)	(million dollars)	
1	2	1	21	62	13	16	19	14	26	198	22
(Z)	(Z)	(Z)	1	1	(Z)	(S)	(S)	(S)	(S)	(S)	2231
-	(Z)	(Z)	5	45	1	(S)	(S)	(S)	(S)	(S)	2256
-	(Z)	(Z)	4	3	3	(S)	(S)	(S)	(S)	(S)	2261
(Z)	(Z)	(Z)	3	5	5	(S)	(S)	(S)	(S)	(S)	2262
-	-	(Z)	-	1	1	(S)	(S)	(S)	(S)	(S)	2269
52	5	6	69	307	118	171	362	165	30	391	26
47	3	4	34	146	98	112	190	110	8	110	2621
1	1	1	21	146	10	46	149	42	5	71	2631
4	(Z)	(Z)	4	6	5	(S)	(S)	(S)	(S)	(S)	2661
22	195	13	137	407	252	244	368	227	90	2,173	28
(Z)	38	2	17	77	43	41	64	41	11	168	2815
6	30	1	9	50	38	40	50	38	5	134	2816
-	60	3	16	110	68	69	81	60	15	248	2818
1	20	1	14	24	22	19	21	19	4	62	2819
1	22	2	19	60	34	22	70	21	13	221	2821
-	7	1	17	26	7	(S)	(S)	(S)	(S)	(S)	2834
(Z)	2	(Z)	5	4	2	(S)	(S)	(S)	(S)	(S)	2841
(Z)	1	(Z)	4	2	1	(S)	(S)	(S)	(S)	(S)	2892
-	1	(Z)	6	2	1	(S)	(S)	(S)	(S)	(S)	2899
31	284	19	16	839	352	342	748	332	21	343	29
31	284	19	12	837	350	342	44	30	20	330	2911
(Z)	6	2	35	17	9	8	13	7	22	246	30
(Z)	4	1	15	8	5	(S)	(S)	(S)	(S)	(S)	3069
(Z)	(Z)	(Z)	9	2	2	2	2	2	3	24	31
13	7	4	35	51	37	48	72	46	31	385	32
(Z)	1	(Z)	6	2	2	(S)	(S)	(S)	(S)	(S)	3221
12	5	2	7	30	19	32	44	30	5	81	3241
68	197	12	78	384	278	259	308	245	80	953	33
62	178	9	17	326	244	210	245	198	38	511	3312
(Z)	(Z)	(Z)	3	1	1	(S)	(S)	(S)	(S)	(S)	3321
-	1	(Z)	4	2	1	(S)	(S)	(S)	(S)	(S)	3323
-	2	(Z)	3	6	3	22	29	21	5	43	3331
-	1	(Z)	4	2	1	(S)	(S)	(S)	(S)	(S)	3341
(Z)	1	1	9	5	3	(S)	(S)	(S)	(S)	(S)	3351
(Z)	1	1	16	9	3	(S)	(S)	(S)	(S)	(S)	3357
(Z)	4	1	24	50	8	5	8	5	41	433	34
(Z)	(Z)	(Z)	5	1	(Z)	(S)	(S)	(S)	(S)	(S)	3452
-	(Z)	(Z)	5	21	1	(S)	(S)	(S)	(S)	(S)	3461
3	35	4	25	58	43	55	61	54	58	637	35
5	7	4	53	32	20	29	33	29	102	989	36
-	(Z)	(Z)	5	1	1	(S)	(S)	(S)	(S)	(S)	3613
5	2	1	13	14	10	(S)	(S)	(S)	(S)	(S)	3662
-	1	(Z)	5	6	1	(S)	(S)	(S)	(S)	(S)	3674
-	(Z)	(Z)	4	2	1	(S)	(S)	(S)	(S)	(S)	3679
-	(Z)	(Z)	4	1	1	(S)	(S)	(S)	(S)	(S)	3691
(Z)	3	4	26	44	9	11	34	10	108	1,335	37
(Z)	(Z)	1	12	27	2	(S)	(S)	(S)	(S)	(S)	3717
-	(Z)	(Z)	4	1	1	(S)	(S)	(S)	(S)	(S)	3722
-	(Z)	(Z)	4	2	(Z)	(S)	(S)	(S)	(S)	(S)	3729
(Z)	(Z)	2	2	3	2	(S)	(S)	(S)	(S)	(S)	3731
(Z)	2	1	14	4	2	2	4	2	37	383	38
(Z)	1	(Z)	5	2	1	(S)	(S)	(S)	(S)	(S)	3861
(Z)	2	(Z)	6	4	3	5	6	5	39	393	39
176	388	43	290	1,567	715	599	1,469	564	330	3,944	
4	15	5	82	45	27	27	41	25	36	418	20
(Z)	(Z)	(Z)	6	1	(Z)	(S)	(S)	(S)	(S)	(S)	2011
-	(Z)	(Z)	4	1	1	(S)	(S)	(S)	(S)	(S)	2023
(Z)	1	1	15	5	2	(S)	(S)	(S)	(S)	(S)	2026
(Z)	(Z)	(Z)	6	2	1	(S)	(S)	(S)	(S)	(S)	2033
(Z)	(Z)	(Z)	6	3	1	(S)	(S)	(S)	(S)	(S)	2037
(Z)	(Z)	1	8	3	2	(S)	(S)	(S)	(S)	(S)	2082

TABLE 2. Water Intake by Purpose, 1964, Gross Water

B. WATER USE REGIONS, MAJOR INDUSTRY

Code	Water use regions, major industry groups, and industries	1964					
		Establishments reporting consumption of water			Water intake by purpose		
		All employees (number)	Value added by manufacture, adjusted (million dollars)	Total (number)	All purposes		Process (billion gallons)
					Total (billion gallons)	Treated prior to use (billion gallons)	
	Chesapeake Bay—Continued						
22	Textile mill products	10,959	96	18	3	1	2
26	Paper and allied products	15,006	226	31	119	40	66
2621	Paper mills, except building	8,480	113	14	76	24	37
2631	Paperboard mills	4,584	85	12	39	14	27
2661	Building paper and board mills	464	7	3	1	(Z)	1
28	Chemicals and allied products	32,596	629	55	180	32	14
2816	Inorganic pigments	1,497	25	4	13	6	2
2834	Pharmaceutical preparations	3,947	146	6	1	(Z)	(Z)
2871	Fertilizers	700	8	8	3	(Z)	(Z)
30	Rubber and plastics products, n.e.c.	10,148	87	14	8	3	2
3069	Rubber products, n.e.c.	2,335	18	5	1	(Z)	(Z)
3079	Plastics products, n.e.c.	2,429	20	6	2	1	(Z)
31	Leather and leather products	1,893	13	10	2	1	2
3111	Leather tanning and finishing	1,893	13	10	2	1	2
32	Stone, clay, and glass products	13,777	215	36	15	3	4
3241	Cement, hydraulic	1,833	41	8	8	(Z)	(Z)
33	Primary metal industries	47,856	647	28	341	317	46
34	Fabricated metal products	9,488	126	22	2	(Z)	1
35	Machinery, except electrical	23,789	236	15	3	1	1
36	Electrical machinery	43,277	543	23	5	(Z)	1
3662	Radio, TV communications equipment	21,515	279	5	1	(Z)	(Z)
37	Transportation equipment	50,063	544	18	14	(Z)	4
3717	Motor vehicles and parts	7,807	138	6	1	(Z)	1
38	Instruments and related products	6,134	74	6	3	(Z)	(Z)
39	Miscellaneous manufacturing	4,500	91	5	1	(Z)	(Z)
	Eastern Great Lakes—St. Lawrence	783,122	12,547	826	1,525	180	313
20	Food and kindred products	37,693	643	169	22	4	7
2023	Condensed and evaporated milk	590	11	11	2	(Z)	(Z)
2026	Fluid milk	6,800	78	42	3	1	1
2032	Canned specialties	3,780	94	7	3	2	2
2033	Canned fruits and vegetables	3,911	48	21	2	1	1
2037	Frozen fruits and vegetables	1,381	17	7	1	(Z)	(Z)
2082	Malt liquors	4,672	83	11	4	(Z)	1
2094	Animal and marine fats and oils	530	9	6	1	(Z)	(Z)
22	Textile mill products	2,246	25	6	2	(Z)	(Z)
26	Paper and allied products	12,220	141	42	96	52	64
2621	Paper mills, except building	8,713	102	22	74	45	48
2631	Paperboard mills	2,276	27	14	18	5	14
28	Chemicals and allied products	39,785	769	97	359	26	22
2812	Alkalies and chlorine	9,035	133	7	132	7	6
2818	Organic chemicals, n.e.c.	5,287	82	13	56	11	6
2819	Inorganic chemicals, n.e.c.	4,121	102	16	107	1	5
2821	Plastics materials and resins	5,033	89	13	18	2	1
2851	Paints and allied products	2,408	49	8	1	(Z)	(Z)
2899	Chemical preparations, n.e.c.	2,121	41	10	12	(Z)	1
29	Petroleum and coal products	4,595	156	17	71	4	1
2911	Petroleum refining	4,229	148	12	70	4	(Z)
30	Rubber and plastics products, n.e.c.	56,379	681	41	43	8	4
3011	Tires and inner tubes	33,722	473	11	33	5	2
3069	Rubber products, n.e.c.	18,852	168	19	6	1	(Z)
32	Stone, clay, and glass products	21,871	356	49	29	1	7
3241	Cement, hydraulic	1,115	31	8	8	1	1
3273	Ready mixed concrete	355	6	4	1	-	1
3274	Lime	1,071	17	4	1	(Z)	(Z)
3281	Cut stone and stone products	1,427	10	4	1	(Z)	1

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959—Continued

GROUPS, AND INDUSTRIES—Continued

1964--Continued						1959					
Water intake by purpose--Continued			Establishments recirculating or reusing water	Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	All employees	Value added by manufacture, adjusted	Code
Cooling and condensing		Boiler feed, sanitary service, and other uses									
Steam electric power generation (billion gallons)	Other (billion gallons)	(billion gallons)	(number)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(1,000)	(million dollars)	
(Z)	(Z)	(Z)	8	4	3	3	4	3	11	89	22
42	7	4	27	718	113	120	750	104	14	191	26
33	4	3	13	619	68	56	623	54	8	93	2621
8	3	1	9	83	40	49	104	37	5	85	2631
(Z)	(Z)	(Z)	3	2	1	(S)	(S)	(S)	(S)	(S)	2661
25	134	7	34	229	177	173	261	167	30	517	28
-	11	(Z)	4	14	13	11	11	10	1	24	2816
-	(Z)	(Z)	5	2	(Z)	(S)	(S)	(S)	(S)	(S)	2834
(Z)	3	(Z)	3	3	3	(S)	(S)	(S)	(S)	(S)	2871
1	3	1	12	11	5	7	10	6	11	94	30
-	1	(Z)	4	2	1	(S)	(S)	(S)	(S)	(S)	3069
(Z)	2	(Z)	5	3	2	(S)	(S)	(S)	(S)	(S)	3079
(Z)	(Z)	(Z)	7	2	2	2	2	2	3	20	31
(Z)	(Z)	(Z)	7	2	2	(S)	(S)	(S)	(S)	(S)	3111
5	4	2	25	18	17	11	27	10	21	254	32
5	2	(Z)	6	9	10	(S)	(S)	(S)	(S)	(S)	3241
94	183	17	21	440	314	197	295	190	49	567	33
(Z)	(Z)	(Z)	15	4	1	1	2	1	12	136	34
-	(Z)	1	9	12	3	3	5	3	22	204	35
(Z)	3	1	15	10	4	2	4	2	18	158	36
-	(Z)	(Z)	4	2	1	(S)	(S)	(S)	(S)	(S)	3662
5	2	3	14	21	13	12	16	11	64	697	37
-	(Z)	(Z)	6	2	1	(S)	(S)	(S)	(S)	(S)	3717
(Z)	2	(Z)	5	5	2	3	7	3	10	103	38
-	(Z)	(Z)	3	7	(Z)	1	5	1	10	129	39
352	706	154	581	2,412	1,435	1,384	2,212	1,303	845	10,766	
(Z)	10	6	112	61	20	18	34	16	41	561	20
-	1	(Z)	6	2	2	(S)	(S)	(S)	(S)	(S)	2023
(Z)	1	1	25	5	3	(S)	(S)	(S)	(S)	(S)	2026
-	(Z)	1	6	3	2	(S)	(S)	(S)	(S)	(S)	2032
(Z)	1	(Z)	17	3	2	(S)	(S)	(S)	(S)	(S)	2033
-	(Z)	(Z)	7	1	1	(S)	(S)	(S)	(S)	(S)	2037
(Z)	1	2	8	7	3	(S)	(S)	(S)	(S)	(S)	2082
(Z)	1	(Z)	4	1	1	(S)	(S)	(S)	(S)	(S)	2094
1	(Z)	(Z)	3	2	2	5	6	5	4	31	22
13	3	16	39	183	87	92	216	87	21	196	26
9	2	15	19	130	68	63	136	60	10	95	2621
3	1	1	14	41	15	18	37	16	3	26	2631
78	221	37	61	450	344	320	409	281	44	727	28
13	85	28	5	146	123	157	180	125	10	128	2812
1	49	1	6	65	52	21	35	21	3	61	2818
62	38	2	8	120	107	88	102	84	8	123	2819
(Z)	16	2	10	35	18	(S)	(S)	(S)	(S)	(S)	2821
(Z)	(Z)	(Z)	4	1	1	(S)	(S)	(S)	(S)	(S)	2851
-	8	3	6	13	11	(S)	(S)	(S)	(S)	(S)	2899
(Z)	67	3	15	232	67	68	152	63	5	131	29
-	67	3	11	232	66	68	150	63	5	127	2911
15	18	5	31	89	42	51	92	48	56	604	30
15	12	4	9	70	33	43	79	40	39	453	3011
(Z)	4	1	16	14	5	(S)	(S)	(S)	(S)	(S)	3069
15	5	2	29	46	27	29	195	26	21	337	32
5	2	1	3	9	7	(S)	(S)	(S)	(S)	(S)	3241
-	-	(Z)	1	1	(Z)	(S)	(S)	(S)	(S)	(S)	3273
-	(Z)	(Z)	4	4	(Z)	(S)	(S)	(S)	(S)	(S)	3274
-	(Z)	(Z)	3	1	1	(S)	(S)	(S)	(S)	(S)	3281

TABLE 2. Water Intake by Purpose, 1964, Gross Water

B. WATER USE REGIONS, MAJOR INDUSTRY

Code	Water use regions, major industry groups, and industries	1964					
		Establishments reporting consumption of water			Water intake by purpose		
		All employees (number)	Value added by manufacture, adjusted (million dollars)	Total (number)	All purposes: Total (billion gallons)	All purposes: Treated prior to use (billion gallons)	Process (billion gallons)
	Eastern Great Lakes-St. Lawrence—Continued						
33	Primary metal industries	112,265	1,775	104	779	65	171
3312	Blast furnaces and steel mills	68,837	1,184	30	735	60	152
3317	Steel pipe and tube	2,417	33	6	1	(Z)	1
3323	Steel foundries	2,996	34	4	1	(Z)	(Z)
3351	Copper rolling and drawing	5,407	71	7	4	(Z)	2
3357	Nonferrous wire drawing, etc	3,554	49	4	1	(Z)	(Z)
3361	Aluminum castings	5,335	64	9	2	(Z)	1
3391	Iron and steel forgings	2,928	36	7	1	(Z)	(Z)
34	Fabricated metal products	33,942	424	56	8	1	4
3452	Bolts, nuts, rivets, and washers	5,960	72	10	1	(Z)	1
3461	Metal stampings	3,583	45	9	1	(Z)	1
35	Machinery, except electrical	65,654	870	52	7	(Z)	3
3519	Internal combustion engines	7,929	122	6	1	(Z)	(Z)
3562	Ball and roller bearings	7,453	95	5	1	(Z)	(Z)
36	Electrical machinery	78,967	976	59	9	1	3
3621	Motors and generators	20,649	281	14	2	(Z)	1
3662	Radio, TV communications equipment	18,207	184	7	1	(Z)	(Z)
37	Transportation equipment	262,948	4,790	102	85	7	16
3717	Motor vehicles and parts	231,431	4,438	86	81	7	14
3729	Aircraft equipment, n.e.c	13,049	129	8	2	(Z)	1
38	Instruments and related products	45,299	845	17	10	8	7
3861	Photographic equipment	29,578	682	8	9	8	6
	Ohio River	892,869	13,675	1,046	2,474	296	425
20	Food and kindred products	49,089	966	193	38	8	9
2011	Meat slaughtering plants	11,327	124	22	6	1	2
2023	Condensed and evaporated milk	953	20	9	1	(Z)	(Z)
2026	Fluid milk	6,997	96	43	3	(Z)	(Z)
2035	Pickles, sauces, salad dressings	807	12	3	1	(Z)	1
2082	Malt liquors	4,040	69	12	3	1	1
2085	Distilled liquor, except brandy	8,101	298	24	13	2	1
2086	Bottled and canned soft drinks	2,143	30	13	1	(Z)	(Z)
2096	Shortening and cooking oils	1,723	49	6	2	1	(Z)
22	Textile mill products	4,579	41	8	2	1	1
26	Paper and allied products	17,932	262	53	58	29	30
2621	Paper mills, except building	8,292	133	18	39	21	19
2631	Paperboard mills	3,391	58	18	11	3	7
28	Chemicals and allied products	66,524	1,801	133	731	50	30
2815	Intermediate coal tar products	3,622	99	12	7	1	1
2819	Inorganic chemicals, n.e.c	7,398	183	25	72	11	5
2821	Plastics materials and resins	7,583	190	18	54	5	10
2851	Paints and allied products	1,404	31	5	1	(Z)	(Z)
2899	Chemical preparations, n.e.c	1,093	23	5	1	(Z)	(Z)
29	Petroleum and coal products	6,352	113	26	31	6	2
2911	Petroleum refining	5,257	92	19	30	6	1
30	Rubber and plastics products, n.e.c	26,608	344	47	10	3	3
3011	Tires and inner tubes	4,633	76	6	2	1	1
3069	Rubber products, n.e.c	15,356	184	21	4	1	1
3079	Plastics products, n.e.c	6,619	84	20	4	1	1
32	Stone, clay, and glass products	52,068	592	91	23	7	8
3221	Glass containers	16,490	148	18	2	(Z)	1
3229	Pressed and blown glass, n.e.c	10,804	131	16	2	1	1
3241	Cement, hydraulic	3,337	75	14	8	3	1
3281	Cut stone and stone products	788	5	4	1	-	1
33	Primary metal industries	243,850	3,342	177	1,506	174	317
3312	Blast furnaces and steel mills	179,366	2,504	75	1,272	168	306
3316	Cold finishing of steel shapes	2,789	37	8	2	1	1
3317	Steel pipe and tube	5,550	73	10	5	(Z)	2
3321	Gray iron foundries	5,446	70	11	2	(Z)	(Z)
3323	Steel foundries	10,492	111	16	2	(Z)	1
3352	Aluminum rolling and drawing	6,471	93	10	3	1	1

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959—Continued

GROUPS, AND INDUSTRIES—Continued

1964--Continued						1959					Code
Water intake by purpose--Continued			Establishments recirculating or reusing water	Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	All employees	Value added by manufacture, adjusted	
Cooling and condensing		Boiler feed, sanitary service, and other uses									
Steam electric power generation (billion gallons)	Other (billion gallons)	(billion gallons)	(number)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(1,000)	(million dollars)	
227	363	17	73	1,075	730	677	864	659	119	1,620	33
227	342	14	26	1,008	686	573	748	558	67	1,000	3312
-	(Z)	(Z)	5	2	1	(S)	(S)	(S)	(S)	(S)	3317
-	(Z)	(Z)	4	1	1	(S)	(S)	(S)	(S)	(S)	3323
-	2	(Z)	5	5	4	(S)	(S)	(S)	(S)	(S)	3351
-	(Z)	(Z)	1	1	1	(S)	(S)	(S)	(S)	(S)	3357
-	1	(Z)	6	4	2	(S)	(S)	(S)	(S)	(S)	3361
-	(Z)	(Z)	5	1	1	(S)	(S)	(S)	(S)	(S)	3391
(Z)	2	1	31	12	8	6	8	6	39	370	34
-	(Z)	(Z)	5	1	1	(S)	(S)	(S)	(S)	(S)	3452
-	(Z)	(Z)	5	1	1	(S)	(S)	(S)	(S)	(S)	3461
(Z)	2	2	32	17	6	6	19	6	78	917	35
-	(Z)	(Z)	4	6	1	(S)	(S)	(S)	(S)	(S)	3519
(Z)	(Z)	(Z)	5	3	1	(S)	(S)	(S)	(S)	(S)	3562
(Z)	3	3	50	22	8	8	22	7	74	871	36
(Z)	1	1	13	10	2	(S)	(S)	(S)	(S)	(S)	3621
-	(Z)	(Z)	5	2	1	(S)	(S)	(S)	(S)	(S)	3662
(Z)	11	58	79	173	82	93	153	90	275	3,578	37
(Z)	10	57	69	160	78	89	141	86	230	3,173	3717
-	(Z)	(Z)	6	2	2	(S)	(S)	(S)	(S)	(S)	3729
-	1	3	14	46	9	8	38	7	38	575	38
-	(Z)	2	8	41	8	(S)	(S)	(S)	(S)	(S)	3861
486	1,409	154	718	3,943	2,351	2,147	3,258	2,064	946	12,172	
(Z)	21	8	131	63	31	46	79	42	55	779	20
(Z)	3	1	15	10	6	111	16	11	14	189	2011
(Z)	1	(Z)	5	1	1	(S)	(S)	(S)	(S)	(S)	2023
(Z)	1	1	27	7	2	(S)	(S)	(S)	(S)	(S)	2026
-	(Z)	(Z)	2	1	1	(S)	(S)	(S)	(S)	(S)	2035
(Z)	1	1	11	6	2	(S)	(S)	(S)	(S)	(S)	2082
(Z)	10	1	22	19	9	16	25	14	13	292	2085
(Z)	(Z)	1	4	1	1	(S)	(S)	(S)	(S)	(S)	2086
(Z)	1	1	5	4	2	(S)	(S)	(S)	(S)	(S)	2096
-	(Z)	(Z)	4	2	1	1	1	1	3	28	22
20	5	3	46	189	51	57	165	52	18	220	26
16	3	1	16	70	36	38	72	34	10	131	2621
2	1	1	18	106	10	12	80	10	3	38	2631
53	627	21	99	1,229	708	605	863	590	59	1,321	28
(Z)	5	1	10	25	5	37	52	36	5	100	2815
7	58	3	19	246	63	55	124	53	3	63	2819
(Z)	43	1	15	82	53	12	15	11	6	164	2821
(Z)	(Z)	(Z)	2	1	1	(S)	(S)	(S)	(S)	(S)	2851
(Z)	(Z)	(Z)	3	14	(Z)	(S)	(S)	(S)	(S)	(S)	2899
(Z)	25	4	22	228	24	47	198	38	8	137	29
(Z)	25	4	18	228	24	44	193	38	6	117	2911
(Z)	4	3	29	18	9	8	15	7	26	284	30
(Z)	1	(Z)	5	6	2	(S)	(S)	(S)	(S)	(S)	3011
(Z)	2	1	15	8	4	(S)	(S)	(S)	(S)	(S)	3069
(Z)	2	1	9	5	4	(S)	(S)	(S)	(S)	(S)	3079
3	9	4	55	50	21	23	53	21	64	695	32
(Z)	1	(Z)	12	5	2	(S)	(S)	(S)	(S)	(S)	3221
(Z)	1	(Z)	9	3	2	(S)	(S)	(S)	(S)	(S)	3229
3	2	2	8	17	6	(S)	(S)	(S)	(S)	(S)	3241
-	-	(Z)	1	1	1	(S)	(S)	(S)	(S)	(S)	3281
400	691	97	128	2,011	1,442	1,290	1,749	1,249	268	3,308	33
264	617	85	56	1,742	1,212	1,092	1,495	1,055	200	2,519	3312
-	1	(Z)	4	2	1	(S)	(S)	(S)	(S)	(S)	3316
1	1	1	8	7	4	(S)	(S)	(S)	(S)	(S)	3317
(Z)	1	(Z)	5	3	1	(S)	(S)	(S)	(S)	(S)	3321
-	(Z)	1	11	4	2	(S)	(S)	(S)	(S)	(S)	3323
(Z)	2	1	8	5	3	(S)	(S)	(S)	(S)	(S)	3352

TABLE 2. Water Intake by Purpose, 1964, Gross Water

B. WATER USE REGIONS, MAJOR INDUSTRY

Code	Water use regions, major industry groups, and industries	1964					
		Establishments reporting consumption of water			Water intake by purpose		
		All employees (number)	Value added by manufacture, adjusted (million dollars)	Total (number)	All purposes: Total (billion gallons)	All purposes: Treated prior to use (billion gallons)	Process (billion gallons)
	Ohio River—Continued						
	Primary metal industries—Continued						
3356	Rolling and drawing, n.e.c.	6,588	95	5	3	(Z)	1
3357	Nonferrous wire drawing, etc.	8,042	119	5	1	(Z)	1
3391	Iron and steel forgings	4,016	49	8	1	1	1
34	Fabricated metal products	45,419	586	83	9	1	4
3423	Hand and edge tools	2,381	31	4	1	(Z)	(Z)
3429	Hardware, n.e.c.	5,192	89	5	1	(Z)	(Z)
3431	Metal plumbing fixtures	2,363	28	4	1	(Z)	(Z)
3444	Sheet metal work	1,631	21	3	1	1	(Z)
3461	Metal stampings	7,711	94	18	1	(Z)	1
3494	Valves and pipe fittings	5,162	57	6	1	(Z)	(Z)
35	Machinery, except electrical	83,392	1,069	59	13	4	5
3561	Pumps and compressors	6,496	64	6	1	(Z)	(Z)
3562	Ball and roller bearings	8,506	104	5	1	(Z)	(Z)
3566	Power transmission equipment	6,052	72	7	1	(Z)	(Z)
3585	Refrigeration machinery	6,653	87	7	1	(Z)	1
36	Electrical machinery	155,337	2,130	81	35	6	9
3632	Household refrigerators	29,499	490	6	10	1	3
3633	Household laundry equipment	7,755	146	4	1	(Z)	1
3644	Noncurrent carrying devices	2,080	26	5	1	(Z)	1
3679	Electronic components, n.e.c.	5,587	60	9	1	(Z)	(Z)
37	Transportation equipment	115,338	1,976	57	15	4	6
3717	Motor vehicles and parts	64,054	1,313	37	8	2	3
3742	Railroad and street cars	9,442	97	6	2	(Z)	(Z)
38	Instruments and related products	4,759	99	6	1	1	(Z)
	Tennessee	116,720	1,618	170	407	102	79
20	Food and kindred products	4,584	64	24	3	1	1
22	Textile mill products	19,101	140	30	12	7	7
2211	Weaving mills, cotton	3,101	18	4	1	1	1
2269	Finishing plants, n.e.c.	1,077	8	4	1	1	1
26	Paper and allied products	8,464	135	11	75	48	45
2621	Paper mills, except building	6,788	103	4	64	45	38
28	Chemicals and allied products	36,507	728	37	252	43	22
2821	Plastics materials and resins	3,368	73	6	7	2	(Z)
30	Rubber and plastics products, n.e.c.	3,164	41	6	35	(Z)	(Z)
32	Stone, clay, and glass products	4,729	59	16	3	(Z)	1
3241	Cement, hydraulic	803	19	5	1	-	(Z)
33	Primary metal industries	16,152	219	17	25	2	2
36	Electrical machinery	9,360	93	12	1	(Z)	1
	Southeast	570,771	7,016	909	1,001	365	469
20	Food and kindred products	41,681	482	206	42	5	12
2011	Meat slaughtering plants	4,491	39	23	2	(Z)	1
2015	Poultry dressing plants	10,047	56	44	5	(Z)	4
2026	Fluid milk	4,142	53	20	2	(Z)	1
2033	Canned fruits and vegetables	3,065	26	13	2	(Z)	1
2037	Frozen fruits and vegetables	3,327	69	16	14	1	2
2082	Malt liquors	832	30	4	1	(Z)	(Z)
2086	Bottled and canned soft drinks	1,798	19	11	1	1	(Z)
2092	Soybean oil mills	184	2	4	1	(Z)	(Z)
2094	Animal and marine fats and oils	775	9	14	4	1	(Z)
2097	Manufactured ice	213	2	12	3	(Z)	(Z)
21	Tobacco manufactures	18,614	706	8	2	(Z)	1
2111	Cigarettes	17,216	699	4	2	(Z)	1

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959—Continued

GROUPS, AND INDUSTRIES—Continued

1964--Continued						1959					Code
Water intake by purpose--Continued			Establishments recirculating or reusing water	Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	All employees	Value added by manufacture, adjusted	
Cooling and condensing		Boiler feed, sanitary service, and other uses									
Steam electric power generation (billion gallons)	Other (billion gallons)	(billion gallons)	(number)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(1,000)	(million dollars)	
-	2	(Z)	5	7	2	(S)	(S)	(S)	(S)	(S)	3356
-	(Z)	(Z)	5	3	1	(S)	(S)	(S)	(S)	(S)	3357
-	(Z)	(Z)	6	5	1	(S)	(S)	(S)	(S)	(S)	3391
(Z)	3	2	45	11	8	8	11	7	56	534	34
-	(Z)	(Z)	3	1	(Z)	(S)	(S)	(S)	(S)	(S)	3423
-	(Z)	(Z)	4	1	(Z)	(S)	(S)	(S)	(S)	(S)	3429
-	(Z)	(Z)	3	1	1	(S)	(S)	(S)	(S)	(S)	3431
(Z)	(Z)	(Z)	1	1	1	(S)	(S)	(S)	(S)	(S)	3444
(Z)	(Z)	(Z)	8	1	1	(S)	(S)	(S)	(S)	(S)	3461
(Z)	(Z)	(Z)	4	1	1	(S)	(S)	(S)	(S)	(S)	3494
2	4	3	41	25	12	17	26	16	85	989	35
(Z)	(Z)	(Z)	5	1	1	(S)	(S)	(S)	(S)	(S)	3561
-	(Z)	(Z)	4	2	1	(S)	(S)	(S)	(S)	(S)	3562
-	1	(Z)	3	2	1	(S)	(S)	(S)	(S)	(S)	3566
-	(Z)	(Z)	5	4	1	(S)	(S)	(S)	(S)	(S)	3585
8	13	4	53	62	26	26	51	24	146	1,726	36
-	6	1	5	14	4	10	14	8	30	293	3632
(Z)	(Z)	(Z)	3	3	1	(S)	(S)	(S)	(S)	(S)	3633
-	-	(Z)	2	1	1	(S)	(S)	(S)	(S)	(S)	3644
(Z)	(Z)	(Z)	3	1	1	(S)	(S)	(S)	(S)	(S)	3679
1	5	3	42	47	14	14	39	12	118	1,561	37
(Z)	3	2	29	27	8	(S)	(S)	(S)	(S)	(S)	3717
1	(Z)	(Z)	4	2	2	(S)	(S)	(S)	(S)	(S)	3742
(Z)	(Z)	(Z)	5	1	1	(S)	(S)	(S)	(S)	(S)	38
30	271	28	122	758	387	282	639	273	103	1,170	
(Z)	2	1	19	10	3	2	5	2	4	39	20
(Z)	4	1	21	17	11	7	7	6	22	127	22
-	(Z)	(Z)	3	1	1	(S)	(S)	(S)	(S)	(S)	2211
-	(Z)	(Z)	2	1	1	(S)	(S)	(S)	(S)	(S)	2269
15	11	5	11	160	66	73	235	70	8	102	26
15	7	4	4	131	57	68	225	66	7	83	2621
14	198	17	27	427	244	182	233	178	28	435	28
1	6	1	6	13	7	(S)	(S)	(S)	(S)	(S)	2821
(Z)	34	(Z)	4	40	35	5	124	4	2	29	30
-	2	(Z)	5	4	2	1	1	1	4	44	32
-	1	(Z)	1	1	(Z)	(S)	(S)	(S)	(S)	(S)	3241
-	20	3	14	90	24	10	30	9	14	199	33
-	(Z)	(Z)	8	4	1	1	1	(Z)	3	55	36
175	280	77	608	2,676	893	853	2,240	785	530	5,563	
2	24	5	119	65	39	39	65	37	36	408	20
(Z)	(Z)	1	15	4	2	(S)	(S)	(S)	(S)	(S)	2011
(Z)	(Z)	1	24	6	5	(S)	(S)	(S)	(S)	(S)	2015
(Z)	1	1	16	4	2	(S)	(S)	(S)	(S)	(S)	2026
-	1	(Z)	8	3	2	(S)	(S)	(S)	(S)	(S)	2033
(Z)	11	(Z)	9	17	14	21	26	21	4	63	2037
-	(Z)	(Z)	3	2	1	(S)	(S)	(S)	(S)	(S)	2082
(Z)	(Z)	(Z)	4	1	(Z)	(S)	(S)	(S)	(S)	(S)	2086
-	(Z)	(Z)	4	1	(Z)	(S)	(S)	(S)	(S)	(S)	2092
1	3	(Z)	6	4	4	(S)	(S)	(S)	(S)	(S)	2094
(Z)	2	(Z)	5	5	3	(S)	(S)	(S)	(S)	(S)	2097
(Z)	(Z)	1	8	10	2	2	39	1	22	669	21
(Z)	(Z)	1	4	9	2	(S)	(S)	(S)	(S)	(S)	2111

TABLE 2. Water Intake by Purpose, 1964, Gross Water

B. WATER USE REGIONS, MAJOR INDUSTRY

Code	Water use regions, major industry groups, and industries	1964					
		Establishments reporting consumption of water			Water intake by purpose		
					All purposes		Process
		All employees (number)	Value added by manufacture, adjusted (million dollars)	Total (number)	Total (billion gallons)	Treated prior to use (billion gallons)	(billion gallons)
	Southeast—Continued						
22	Textile mill products	250,943	1,809	337	84	62	62
2211	Weaving mills, cotton	116,934	727	108	24	17	14
2221	Weaving mills, synthetics	40,481	307	56	8	4	5
2231	Weaving, finishing mills, wool	10,364	109	17	7	7	6
2251	Women's hosiery, except socks	8,928	70	7	1	(Z)	(Z)
2253	Knit outerwear mills	5,606	30	6	1	(Z)	1
2256	Knit fabric mills	1,434	22	7	1	(Z)	1
2261	Finishing plants, cotton	20,530	171	28	25	20	21
2262	Finishing plants, synthetic	5,417	44	13	7	5	5
2269	Finishing plants, n.e.c	2,189	19	16	2	1	2
2272	Tufted carpets and rugs	5,990	88	16	3	2	3
2281	Yarn mills, except wool	6,824	38	16	1	1	(Z)
2283	Wool yarn mills	4,423	32	7	1	1	1
2284	Thread mills	4,450	31	8	2	2	1
24	Lumber and wood products	7,360	67	16	4	4	3
26	Paper and allied products	38,536	740	56	522	227	283
2611	Pulp mills	4,028	90	5	92	45	70
2621	Paper mills, except building	9,112	159	8	143	70	78
2631	Paperboard mills	17,659	395	24	280	111	132
2661	Building paper and board mills	2,578	39	7	3	(Z)	2
28	Chemicals and allied products	44,946	1,081	95	217	51	57
2819	Inorganic chemicals, n.e.c	9,679	214	13	28	14	13
2861	Gum and wood chemicals	2,952	63	12	21	5	1
2871	Fertilizers	4,912	84	23	72	17	28
29	Petroleum and coal products	892	23	9	5	3	1
2911	Petroluem refining	481	16	6	5	3	(Z)
30	Rubber and plastics products, n.e.c	6,538	112	7	6	(Z)	1
32	Stone, clay, and glass products	13,849	202	47	18	4	9
3241	Cement, hydraulic	2,689	64	18	10	(Z)	3
3295	Minerals, ground or treated	559	8	4	1	(Z)	1
33	Primary metal industries	34,742	418	33	87	5	35
3312	Blast furnaces and steel mills	22,501	295	15	83	4	33
3321	Gray iron foundries	10,235	96	12	4	(Z)	2
34	Fabricated metal products	11,131	133	28	3	(Z)	1
3471	Plating and polishing	436	3	4	1	(Z)	(Z)
35	Machinery, except electrical	5,413	51	8	1	(Z)	(Z)
36	Electrical machinery	29,431	359	26	3	(Z)	1
3662	Radio, TV communications equipment	17,224	199	7	1	(Z)	(Z)
37	Transportation equipment	41,629	572	14	4	2	2
3717	Motor vehicles and parts	6,810	222	6	1	(Z)	1
	Western Great Lakes	787,147	11,929	984	1,631	147	472
20	Food and kindred products	69,393	1,447	220	64	9	18
2011	Meat slaughtering plants	4,891	62	20	3	(Z)	1
2013	Meat processing plants	4,163	56	11	1	(Z)	1
2021	Creamery butter	272	3	6	1	(Z)	(Z)
2022	Natural and process cheese	1,054	22	8	1	(Z)	(Z)
2023	Condensed and evaporated milk	1,592	49	15	5	1	(Z)
2026	Fluid milk	2,627	36	17	3	1	1
2033	Canned fruits and vegetables	3,960	42	30	3	(Z)	2
2035	Pickles, sauces, salad dressings	1,400	16	5	1	(Z)	(Z)
2043	Cereal preparations	6,363	193	4	3	(Z)	1
2071	Confectionery products	8,148	101	9	2	(Z)	(Z)
2082	Malt liquors	8,720	186	14	11	1	3
2083	Malt	475	9	7	2	-	1
2086	Bottled and canned soft drinks	2,209	30	11	1	(Z)	(Z)
2096	Shortening and cooking oils	1,593	39	7	4	2	(Z)
2099	Food preparations, n.e.c	1,658	64	8	2	(Z)	1
25	Furniture and fixtures	5,516	68	7	1	(Z)	(Z)
26	Paper and allied products	29,225	403	88	183	81	101
2621	Paper mills, except building	12,212	191	39	123	60	64
2631	Paperboard mills	4,401	71	18	33	9	18
2641	Paper coating and glazing	5,947	74	13	10	8	7
2661	Building paper and board mills	675	9	6	8	(Z)	5

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959—Continued

GROUPS, AND INDUSTRIES—Continued

1964--Continued						1959					Code
Water intake by purpose--Continued			Establishments recirculating or reusing water	Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	All employees	Value added by manufacture, adjusted	
Cooling and condensing		Boiler feed, sanitary service, and other uses									
Steam electric power generation (billion gallons)	Other (billion gallons)	(billion gallons)	(number)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(1,000)	(million dollars)	
4	7	12	216	177	75	72	110	64	250	1,520	22
2	3	5	78	84	21	23	37	20	131	741	2211
(Z)	1	2	43	24	6	(S)	(S)	(S)	(S)	(S)	2221
(Z)	(Z)	1	10	8	7	(S)	(S)	(S)	(S)	(S)	2231
-	(Z)	(Z)	5	3	(Z)	(S)	(S)	(S)	(S)	(S)	2251
-	(Z)	(Z)	1	1	1	(S)	(S)	(S)	(S)	(S)	2253
(Z)	(Z)	(Z)	3	1	1	(S)	(S)	(S)	(S)	(S)	2256
1	1	1	19	30	22	28	35	26	25	161	2261
-	(Z)	2	8	9	6	(S)	(S)	(S)	(S)	(S)	2262
(Z)	(Z)	(Z)	3	2	2	(S)	(S)	(S)	(S)	(S)	2269
(Z)	(Z)	(Z)	9	4	3	(S)	(S)	(S)	(S)	(S)	2272
-	(Z)	(Z)	10	2	1	(S)	(S)	(S)	(S)	(S)	2281
-	(Z)	(Z)	6	3	1	(S)	(S)	(S)	(S)	(S)	2283
-	(Z)	(Z)	6	3	2	(S)	(S)	(S)	(S)	(S)	2284
(Z)	(Z)	1	11	14	2	3	4	2	4	17	24
138	81	20	52	1,459	512	480	1,434	467	42	668	26
7	11	3	5	323	86	84	35	26	4	79	2611
43	17	5	8	309	150	188	489	185	12	215	2621
85	51	11	24	798	269	203	559	197	16	259	2631
-	(Z)	(Z)	7	16	2	(S)	(S)	(S)	(S)	(S)	2661
10	121	28	66	468	185	143	266	124	30	686	28
3	12	1	9	96	27	(S)	(S)	(S)	(S)	(S)	2819
1	18	1	10	35	19	23	38	21	3	55	2861
(Z)	25	18	13	153	51	30	53	24	4	50	2871
-	4	1	8	63	5	2	2	2	(Z)	7	29
-	4	1	6	63	4	(S)	(S)	(S)	(S)	(S)	2911
-	5	(Z)	6	43	6	6	8	6	6	102	30
5	3	1	31	50	10	16	26	9	10	141	32
5	2	(Z)	14	19	3	15	20	8	3	64	3241
-	-	(Z)	4	3	1	(S)	(S)	(S)	(S)	(S)	3295
16	31	6	25	241	44	73	240	58	33	391	33
16	29	5	13	227	40	69	231	54	22	280	3312
(Z)	1	(Z)	8	6	3	(S)	(S)	(S)	(S)	(S)	3321
(Z)	1	(Z)	15	4	2	2	3	2	8	79	34
(Z)	(Z)	(Z)	3	1	1	(S)	(S)	(S)	(S)	(S)	3471
-	(Z)	(Z)	6	11	1	(S)	(S)	(S)	(S)	(S)	35
-	1	1	20	34	3	1	2	1	13	161	36
-	(Z)	(Z)	7	21	1	(S)	(S)	(S)	(S)	(S)	3662
(Z)	1	1	11	30	4	10	31	10	44	416	37
-	(Z)	(Z)	6	12	1	(S)	(S)	(S)	(S)	(S)	3717
377	713	70	661	2,617	1,568	1,419	2,457	1,378	782	10,052	
4	31	10	144	97	54	55	92	51	66	1,048	20
(Z)	1	(Z)	15	4	3	(S)	(S)	(S)	(S)	(S)	2011
(Z)	(Z)	(Z)	5	4	1	(S)	(S)	(S)	(S)	(S)	2013
-	(Z)	(Z)	5	1	1	(S)	(S)	(S)	(S)	(S)	2021
-	1	(Z)	5	1	1	(S)	(S)	(S)	(S)	(S)	2022
(Z)	4	(Z)	7	5	5	(S)	(S)	(S)	(S)	(S)	2023
(Z)	1	2	11	4	3	(S)	(S)	(S)	(S)	(S)	2026
(Z)	1	(Z)	21	4	3	(S)	(S)	(S)	(S)	(S)	2033
-	(Z)	(Z)	3	1	(Z)	(S)	(S)	(S)	(S)	(S)	2035
(Z)	2	1	3	4	2	(S)	(S)	(S)	(S)	(S)	2043
-	1	(Z)	6	3	1	(S)	(S)	(S)	(S)	(S)	2071
3	3	2	11	14	10	11	24	11	10	171	2082
-	1	(Z)	5	5	2	(S)	(S)	(S)	(S)	(S)	2083
(Z)	(Z)	(Z)	9	1	1	(S)	(S)	(S)	(S)	(S)	2086
(Z)	3	1	6	13	2	(S)	(S)	(S)	(S)	(S)	2096
(Z)	2	(Z)	5	3	2	(S)	(S)	(S)	(S)	(S)	2099
-	(Z)	(Z)	6	1	(Z)	(S)	(S)	(S)	(S)	(S)	25
58	14	10	81	456	154	154	453	145	35	412	26
44	8	7	39	283	99	101	295	94	13	171	2621
12	1	2	16	86	31	31	65	30	5	58	2631
1	2	1	9	44	9	(S)	(S)	(S)	(S)	(S)	2641
2	(Z)	(Z)	6	19	6	(S)	(S)	(S)	(S)	(S)	2661

TABLE 2. Water Intake by Purpose, 1964, Gross Water

B. WATER USE REGIONS, MAJOR INDUSTRY

Code	Water use regions, major industry groups, and industries	1964					
		Establishments reporting consumption of water			Water intake by purpose		
		All employees (number)	Value added by manufacture, adjusted (million dollars)	Total (number)	All purposes: Total (billion gallons)	All purposes: Treated prior to use (billion gallons)	Process (billion gallons)
	Western Great Lakes—Continued						
28	Chemicals and allied products	36,934	1,155	87	150	21	20
2819	Inorganic chemicals, n.e.c	3,075	73	15	27	2	10
2834	Pharmaceutical preparations	9,155	373	8	10	(Z)	1
2841	Soap and other detergents	2,897	133	6	4	1	1
2851	Paints and allied products	3,790	91	11	2	(Z)	1
2899	Chemical preparations, n.e.c	1,789	41	7	12	2	1
29	Petroleum and coal products	10,712	224	25	176	9	18
2911	Petroleum refining	8,971	200	18	171	9	16
30	Rubber and plastics products, n.e.c	15,402	204	26	15	1	2
3069	Rubber products, n.e.c	9,685	110	11	4	(Z)	1
31	Leather and leather products	7,334	75	19	4	(Z)	3
32	Stone, clay, and glass products	14,583	215	35	20	(Z)	7
3241	Cement, hydraulic	2,357	49	6	11	(Z)	(Z)
3293	Gaskets and insulations	3,746	30	3	1	(Z)	(Z)
33	Primary metal industries	139,427	1,911	115	941	16	265
3312	Blast furnaces and steel mills	82,638	1,289	20	909	13	245
3321	Gray iron foundries	16,815	171	20	6	1	2
3322	Malleable iron foundries	3,416	31	5	1	(Z)	(Z)
3323	Steel foundries	7,828	84	12	1	(Z)	(Z)
3351	Copper rolling and drawing	3,241	43	4	3	1	2
3352	Aluminum rolling and drawing	5,400	51	9	2	(Z)	1
3357	Nonferrous wire drawing, etc	2,428	31	5	1	(Z)	(Z)
3361	Aluminum castings	1,560	14	7	1	(Z)	(Z)
3391	Iron and steel forgings	9,220	96	10	2	(Z)	(Z)
34	Fabricated metal products	55,472	686	100	10	1	7
3429	Hardware, n.e.c	10,611	173	9	2	(Z)	2
3443	Boiler shop products	3,482	30	6	1	(Z)	1
3452	Bolts, nuts, rivets, and washers	4,398	58	8	1	(Z)	(Z)
3461	Metal stampings	12,400	147	17	2	(Z)	1
3471	Plating and polishing	1,058	10	22	1	(Z)	1
3481	Fabricated wire products, n.e.c	2,836	23	4	1	(Z)	(Z)
3494	Valves and pipe fittings	5,961	75	7	1	(Z)	(Z)
35	Machinery, except electrical	98,095	1,185	85	21	1	6
3519	Internal combustion engines	22,716	260	15	4	(Z)	2
3531	Construction machinery	19,978	212	11	2	(Z)	1
3566	Power transmission equipment	4,614	65	4	1	(Z)	(Z)
36	Electrical machinery	97,968	1,159	59	11	1	4
3632	Household refrigerators	5,920	73	4	1	(Z)	(Z)
3633	Household laundry equipment	3,489	72	4	1	(Z)	(Z)
3651	Radio and TV receiving sets	12,263	127	5	1	(Z)	(Z)
3679	Electronic components, n.e.c	12,818	159	6	1	(Z)	(Z)
37	Transportation equipment	177,145	2,841	76	30	5	17
3717	Motor vehicles and parts	153,379	2,568	57	24	4	15
38	Instruments and related products	19,248	239	16	3	(Z)	1
39	Miscellaneous manufacturing	3,086	32	9	1	(Z)	(Z)
	Upper Mississippi	444,012	6,655	679	543	103	158
20	Food and kindred products	92,742	1,430	302	119	28	28
2011	Meat slaughtering plants	43,975	492	33	31	13	14
2015	Poultry dressing plants	3,645	21	17	3	(Z)	2
2021	Creamery butter	1,248	14	32	3	(Z)	(Z)
2022	Natural and process cheese	821	10	9	1	(Z)	(Z)
2023	Condensed and evaporated milk	2,119	53	24	5	(Z)	1
2024	Ice cream and frozen desserts	885	16	10	1	(Z)	(Z)
2026	Fluid milk	2,486	37	24	2	(Z)	(Z)
2033	Canned fruits and vegetables	5,069	69	38	3	(Z)	2
2037	Frozen fruits and vegetables	2,108	18	6	1	(Z)	(Z)
2046	Wet corn milling	7,199	149	7	30	7	3
2082	Malt liquors	8,582	191	12	11	2	1
2083	Malt	553	16	11	3	2	1
2092	Soybean oil mills	2,217	50	21	6	1	(Z)
2094	Animal and marine fats and oils	265	5	9	1	(Z)	(Z)

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959—Continued

GROUPS, AND INDUSTRIES—Continued

1964--Continued						1959					Code
Water intake by purpose--Continued			Establishments recirculating or reusing water	Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	All employees	Value added by manufacture, adjusted	
Cooling and condensing		Boiler feed, sanitary service, and other uses									
Steam electric power generation (billion gallons)	Other (billion gallons)	(billion gallons)	(number)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(1,000)	(million dollars)	
13	108	10	68	282	131	171	238	163	39	1,057	28
3	12	2	11	39	16	27	44	25	3	61	2819
-	8	1	7	23	11	(S)	(S)	(S)	(S)	(S)	2834
1	2	1	5	7	2	10	13	9	3	102	2841
-	1	(Z)	10	3	2	(S)	(S)	(S)	(S)	(S)	2851
2	8	2	5	16	12	(S)	(S)	(S)	(S)	(S)	2899
4	150	4	18	344	192	166	332	161	13	200	29
2	149	4	13	339	188	164	330	159	11	181	2911
(Z)	13	1	16	18	15	6	8	6	16	161	30
-	3	(Z)	9	4	4	(S)	(S)	(S)	(S)	(S)	3069
(Z)	(Z)	(Z)	10	4	4	3	3	3	8	58	31
8	4	1	24	28	18	77	79	73	12	158	32
8	3	(Z)	3	12	11	72	73	70	4	50	3241
-	(Z)	(Z)	2	2	(Z)	(S)	(S)	(S)	(S)	(S)	3293
283	376	16	77	1,192	926	715	1,104	708	135	1,602	33
283	369	13	20	1,119	897	694	1,076	689	77	1,009	3312
(Z)	2	1	8	7	5	(S)	(S)	(S)	(S)	(S)	3321
-	1	(Z)	5	2	1	(S)	(S)	(S)	(S)	(S)	3322
-	1	(Z)	7	2	1	(S)	(S)	(S)	(S)	(S)	3323
(Z)	(Z)	(Z)	2	3	3	(S)	(S)	(S)	(S)	(S)	3351
-	1	(Z)	7	6	2	(S)	(S)	(S)	(S)	(S)	3352
(Z)	(Z)	(Z)	3	2	1	(S)	(S)	(S)	(S)	(S)	3357
-	(Z)	(Z)	2	1	1	(S)	(S)	(S)	(S)	(S)	3361
-	1	1	6	2	1	(S)	(S)	(S)	(S)	(S)	3391
(Z)	2	2	58	17	10	11	20	10	81	862	34
(Z)	(Z)	(Z)	4	5	2	(S)	(S)	(S)	(S)	(S)	3429
(Z)	(Z)	(Z)	6	1	1	(S)	(S)	(S)	(S)	(S)	3443
(Z)	(Z)	(Z)	6	1	1	(S)	(S)	(S)	(S)	(S)	3452
-	(Z)	(Z)	10	2	2	(S)	(S)	(S)	(S)	(S)	3461
(Z)	(Z)	(Z)	9	1	1	(S)	(S)	(S)	(S)	(S)	3471
(Z)	(Z)	(Z)	2	1	1	(S)	(S)	(S)	(S)	(S)	3481
-	(Z)	(Z)	4	1	1	(S)	(S)	(S)	(S)	(S)	3494
6	5	4	55	30	19	22	30	22	80	879	35
(Z)	1	1	11	6	3	(S)	(S)	(S)	(S)	(S)	3519
-	1	1	9	3	2	(S)	(S)	(S)	(S)	(S)	3531
-	1	(Z)	3	2	1	(S)	(S)	(S)	(S)	(S)	3566
(Z)	3	4	37	39	10	3	13	6	75	850	36
-	(Z)	(Z)	2	1	(Z)	(S)	(S)	(S)	(S)	(S)	3632
-	(Z)	(Z)	3	1	1	(S)	(S)	(S)	(S)	(S)	3633
(Z)	(Z)	1	2	1	1	(S)	(S)	(S)	(S)	(S)	3651
-	(Z)	(Z)	5	1	1	(S)	(S)	(S)	(S)	(S)	3679
1	8	5	46	99	29	23	71	22	161	2,125	37
(Z)	5	4	39	91	23	17	61	16	133	1,834	3717
(Z)	(Z)	2	10	4	3	1	2	1	20	217	38
-	(Z)	(Z)	4	1	1	(S)	(S)	(S)	(S)	(S)	39
135	198	52	467	1,212	494	441	966	402	471	6,719	
11	62	18	213	204	110	98	148	90	87	1,172	20
1	11	5	27	54	29	26	48	25	46	500	2011
(Z)	(Z)	(Z)	8	3	3	(S)	(S)	(S)	(S)	(S)	2015
(Z)	2	1	22	4	3	(S)	(S)	(S)	(S)	(S)	2021
(Z)	1	(Z)	4	1	1	(S)	(S)	(S)	(S)	(S)	2022
2	3	(Z)	15	15	5	(S)	(S)	(S)	(S)	(S)	2023
-	1	(Z)	5	1	1	(S)	(S)	(S)	(S)	(S)	2024
(Z)	1	(Z)	16	3	2	(S)	(S)	(S)	(S)	(S)	2026
(Z)	(Z)	(Z)	33	5	2	(S)	(S)	(S)	(S)	(S)	2033
-	(Z)	(Z)	5	2	1	(S)	(S)	(S)	(S)	(S)	2037
5	19	3	7	44	28	26	33	24	7	129	2046
1	2	6	9	21	9	(S)	(S)	(S)	(S)	(S)	2082
(Z)	2	(Z)	10	8	3	(S)	(S)	(S)	(S)	(S)	2083
1	4	(Z)	14	11	5	(S)	(S)	(S)	(S)	(S)	2092
(Z)	(Z)	(Z)	3	1	1	(S)	(S)	(S)	(S)	(S)	2094

TABLE 2. Water Intake by Purpose, 1964, Gross Water

B. WATER USE REGIONS, MAJOR INDUSTRY

Code	Water use regions, major industry groups, and industries	1964					
		Establishments reporting consumption of water			Water intake by purpose		
		All employees (number)	Value added by manufacture, adjusted (million dollars)	Total (number)	All purposes		Process (billion gallons)
					Total (billion gallons)	Treated prior to use (billion gallons)	
	Upper Mississippi—Continued						
25	Furniture and fixtures	865	9	3	(Z)	(Z)	(Z)
26	Paper and allied products	19,965	279	42	122	38	71
2621	Paper mills, except building	12,478	153	21	92	30	61
2631	Paperboard mills	2,832	48	10	17	5	6
28	Chemicals and allied products	19,260	489	49	62	12	10
2819	Inorganic chemicals, n.e.c	3,344	49	13	24	2	1
2834	Pharmaceutical preparations	2,638	54	6	1	(Z)	(Z)
29	Petroleum and coal products	5,303	147	10	17	6	1
2911	Petroleum refining	4,911	143	7	16	6	1
30	Rubber and plastics products, n.e.c	9,584	136	16	5	1	1
3011	Tires and inner tubes	5,828	93	5	4	1	1
3079	Plastics products, n.e.c	2,391	31	7	1	(Z)	(Z)
32	Stone, clay, and glass products	20,759	353	37	49	3	7
3281	Cut stone and stone products	1,196	9	4	2	-	2
33	Primary metal industries	27,732	358	38	113	5	24
3312	Blast furnaces and steel mills	14,681	221	6	95	4	22
3321	Gray iron foundries	1,665	15	5	1	(Z)	(Z)
3323	Steel foundries	2,979	36	7	1	(Z)	(Z)
34	Fabricated metal products	19,695	232	41	5	(Z)	3
3429	Hardware, n.e.c	4,845	50	7	2	(Z)	1
3452	Bolts, nuts, rivets, and washers	3,312	39	4	1	(Z)	1
3471	Plating and polishing	764	8	6	1	(Z)	(Z)
35	Machinery, except electrical	95,501	1,258	66	35	4	6
3519	Internal combustion engines	3,520	42	4	1	(Z)	(Z)
3585	Refrigeration machinery	6,355	73	5	1	(Z)	1
3599	Miscellaneous machinery	5,033	51	6	1	-	(Z)
36	Electrical machinery	47,885	562	34	6	1	2
3621	Motors and generators	4,566	34	5	2	(Z)	1
37	Transportation equipment	54,652	1,063	16	5	1	2
3717	Motor vehicles and parts	19,000	542	11	2	(Z)	2
38	Instruments and related products	15,940	183	8	2	1	1
3822	Automatic temperature controls	11,187	139	4	1	(Z)	(Z)
	Lower Mississippi	72,092	1,239	213	585	55	83
20	Food and kindred products	14,722	216	97	54	5	5
2011	Meat slaughtering plants	1,479	13	7	1	(Z)	(Z)
2061	Raw cane sugar	1,835	30	25	18	1	2
2062	Cane sugar refining	2,528	35	5	21	2	1
2086	Bottled and canned soft drinks	1,232	12	8	1	1	1
2091	Cottonseed oil mills	546	7	6	1	(Z)	(Z)
22	Textile mill products	3,604	34	5	2	1	1
24	Lumber and wood products	1,858	14	7	2	(Z)	1
26	Paper and allied products	5,175	76	11	32	23	30
2621	Paper mills, except building	770	19	3	6	4	6
28	Chemicals and allied products	11,091	319	38	202	17	16
2818	Organic chemicals, n.e.c	5,029	186	12	136	13	7
2819	Inorganic chemicals, n.e.c	2,409	47	8	29	1	4
29	Petroleum and coal products	6,527	198	8	122	3	25
30	Rubber and plastics products, n.e.c	5,569	80	6	4	3	(Z)
32	Stone, clay, and glass products	1,835	29	9	3	(Z)	1
34	Fabricated metal products	2,536	25	9	1	1	1
37	Transportation equipment	8,215	92	8	1	(Z)	(Z)

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959—Continued

GROUPS, AND INDUSTRIES—Continued

1964--Continued						1959					Code
Water intake by purpose--Continued			Establishments recirculating or reusing water	Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	All employees	Value added by manufacture, adjusted	
Cooling and condensing		Boiler feed, sanitary service, and other uses									
Steam electric power generation (billion gallons)	Other (billion gallons)	(billion gallons)	(number)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(1,000)	(million dollars)	
(Z)	(Z)	(Z)	3	(Z)	(Z)	(S)	(S)	(S)	(S)	(S)	25
33	10	8	39	254	110	102	199	95	21	278	26
20	7	5	21	192	82	78	131	74	13	147	2621
8	(Z)	2	9	42	16	21	64	18	3	52	2631
2	43	7	36	156	58	40	98	37	18	413	28
-	21	2	9	60	21	(S)	(S)	(S)	(S)	(S)	2819
(Z)	(Z)	(Z)	5	3	(Z)	(S)	(S)	(S)	(S)	(S)	2834
1	12	3	9	228	11	15	162	11	7	114	29
1	11	3	7	227	10	15	161	11	6	108	2911
-	3	(Z)	14	9	4	4	6	4	8	129	30
-	2	(Z)	5	7	3	(S)	(S)	(S)	(S)	(S)	3011
-	1	(Z)	5	1	1	(S)	(S)	(S)	(S)	(S)	3079
32	6	4	19	56	46	42	73	40	25	352	32
-	(Z)	(Z)	2	2	2	(S)	(S)	(S)	(S)	(S)	3281
33	53	3	24	202	100	87	179	74	32	382	33
24	48	1	6	176	81	61	146	49	14	183	3312
-	(Z)	(Z)	-	1	1	(S)	(S)	(S)	(S)	(S)	3321
(Z)	(Z)	(Z)	6	2	1	(S)	(S)	(S)	(S)	(S)	3323
(Z)	1	1	20	10	5	3	7	3	23	262	34
(Z)	(Z)	(Z)	5	5	1	(S)	(S)	(S)	(S)	(S)	3429
-	(Z)	(Z)	3	2	1	(S)	(S)	(S)	(S)	(S)	3452
(Z)	(Z)	(Z)	-	1	1	(S)	(S)	(S)	(S)	(S)	3471
21	4	4	39	56	34	32	47	32	102	1,102	35
-	(Z)	(Z)	3	1	1	(S)	(S)	(S)	(S)	(S)	3519
-	(Z)	(Z)	2	1	1	(S)	(S)	(S)	(S)	(S)	3585
-	(Z)	(Z)	6	1	1	(S)	(S)	(S)	(S)	(S)	3599
(Z)	2	2	26	10	6	5	8	4	44	443	36
-	1	1	5	3	2	(S)	(S)	(S)	(S)	(S)	3621
-	1	2	13	20	5	6	22	6	50	605	37
-	(Z)	1	9	15	2	(S)	(S)	(S)	(S)	(S)	3717
(Z)	1	1	6	2	2	2	2	2	23	236	38
-	(Z)	(Z)	3	1	1	(S)	(S)	(S)	(S)	(S)	3822
183	290	30	119	1,126	572	438	999	424	67	1,011	
3	40	5	45	64	51	32	35	31	11	144	20
(Z)	1	(Z)	5	2	1	(S)	(S)	(S)	(S)	(S)	2011
1	13	2	14	21	16	(S)	(S)	(S)	(S)	(S)	2061
2	16	1	3	21	20	(S)	(S)	(S)	(S)	(S)	2062
-	(Z)	(Z)	2	1	1	(S)	(S)	(S)	(S)	(S)	2086
-	1	(Z)	3	1	1	(S)	(S)	(S)	(S)	(S)	2091
-	(Z)	(Z)	3	15	2	1	2	1	5	39	22
(Z)	(Z)	(Z)	6	3	1	1	2	(Z)	3	14	24
-	(Z)	2	9	87	31	32	96	31	7	106	26
-	(Z)	(Z)	3	13	6	(S)	(S)	(S)	(S)	(S)	2621
28	150	9	27	455	197	120	317	113	13	315	28
26	99	3	11	301	134	64	139	63	5	140	2818
(Z)	21	3	6	77	27	21	118	16	3	69	2819
(Z)	93	4	7	310	120	99	383	94	9	135	29
-	3	(Z)	5	7	4	3	4	3	5	58	30
-	1	1	2	5	2	(S)	(S)	(S)	(S)	(S)	32
(Z)	(Z)	(Z)	4	1	1	(S)	(S)	(S)	(S)	(S)	34
(Z)	(Z)	1	2	1	1	(S)	(S)	(S)	(S)	(S)	37

TABLE 2. Water Intake by Purpose, 1964, Gross Water

B. WATER USE REGIONS, MAJOR INDUSTRY

Code	Water use regions, major industry groups, and industries	1964					
		Establishments reporting consumption of water			Water intake by purpose		
					All purposes		
		All employees (number)	Value added by manufacture, adjusted (million dollars)	Total (number)	Total (billion gallons)	Treated prior to use (billion gallons)	Process (billion gallons)
	Missouri	129,825	2,144	280	144	30	46
20	Food and kindred products	41,903	536	171	68	11	25
2011	Meat slaughtering plants	21,094	218	43	24	2	11
2015	Poultry dressing plants	1,398	8	6	1	(Z)	(Z)
2021	Creamery butter	801	9	13	2	1	1
2026	Fluid milk	3,321	35	23	2	(Z)	(Z)
2063	Beet sugar	4,041	74	25	23	5	9
2092	Soybean oil mills	391	5	4	1	(Z)	(Z)
2094	Animal and marine fats and oils	319	7	10	1	(Z)	(Z)
2099	Food preparations, n.e.c	686	8	5	1	-	(Z)
26	Paper and allied products	392	5	6	1	1	1
28	Chemicals and allied products	5,523	203	23	21	10	5
2813	Industrial gases	63	3	4	2	(Z)	1
2819	Inorganic chemicals, n.e.c	1,042	31	9	12	9	3
30	Rubber and plastics products, n.e.c	8,640	149	5	3	1	1
32	Stone, clay, and glass products	5,056	73	14	5	(Z)	1
3241	Cement, hydraulic	1,236	31	7	1	(Z)	(Z)
33	Primary metal industries	7,257	113	9	14	(Z)	9
36	Electrical machinery	9,747	127	7	1	(Z)	(Z)
37	Transportation equipment	26,050	624	8	2	1	1
	Arkansas, White and Red	133,324	1,847	289	216	99	123
20	Food and kindred products	17,347	170	97	12	2	5
2011	Meat slaughtering plants	4,154	43	13	2	(Z)	1
2015	Poultry dressing plants	4,070	20	22	2	(Z)	1
2023	Condensed and evaporated milk	944	13	7	1	(Z)	(Z)
2026	Fluid milk	2,565	34	16	1	(Z)	(Z)
24	Lumber and wood products	3,965	22	15	1	1	(Z)
2421	Sawmills and planing mills	3,114	16	9	1	1	(Z)
26	Paper and allied products	13,675	240	20	74	56	67
2621	Paper mills, except building	5,032	68	5	38	32	36
28	Chemicals and allied products	9,516	231	42	64	11	22
2819	Inorganic chemicals, n.e.c	4,179	93	11	27	6	8
2899	Chemical preparations, n.e.c	550	9	4	4	(Z)	(Z)
29	Petroleum and coal products	10,997	283	40	28	16	1
2911	Petroleum refining	10,448	275	35	27	16	1
32	Stone, clay, and glass products	5,488	100	24	3	(Z)	2
3241	Cement, hydraulic	1,529	39	10	2	(Z)	1
34	Fabricated metal products	3,459	56	8	1	(Z)	(Z)
35	Machinery, except electrical	3,663	38	5	1	(Z)	(Z)
36	Electrical machinery	8,025	85	8	1	(Z)	(Z)
37	Transportation equipment	33,425	339	8	2	(Z)	1
	Western Gulf	193,209	4,102	339	1,825	434	358
20	Food and kindred products	21,175	349	92	14	3	6
2011	Meat slaughtering plants	4,810	49	14	2	1	1
2015	Poultry dressing plants	1,382	8	10	1	-	1
2026	Fluid milk	2,547	37	12	1	(Z)	(Z)
2082	Malt liquors	1,940	44	5	1	(Z)	(Z)
22	Textile mill products	2,981	18	6	1	1	1
24	Lumber and wood products	3,240	19	7	8	(Z)	1
28	Chemicals and allied products	35,261	1,459	92	1,218	278	293
2812	Alkalies and chlorine	2,733	71	4	200	12	1
2819	Inorganic chemicals, n.e.c	2,446	86	16	9	3	5
2822	Synthetic rubber	3,645	113	8	7	4	2
2895	Carbon black	752	31	8	1	(Z)	1
2899	Chemical preparations, n.e.c	843	36	5	1	1	(Z)
29	Petroleum and coal products	33,631	882	45	383	73	10
32	Stone, clay, and glass products	5,730	111	33	5	(Z)	3
33	Primary metal industries	15,101	238	17	151	68	25

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959—Continued

GROUPS, AND INDUSTRIES—Continued

1964--Continued						1959					Code
Water intake by purpose--Continued			Establishments recirculating or reusing water	Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	All employees	Value added by manufacture, adjusted	
Cooling and condensing		Boiler feed, sanitary service, and other uses									
Steam electric power generation (billion gallons)	Other (billion gallons)	(billion gallons)	(number)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(1,000)	(million dollars)	
2	75	22	192	440	128	150	476	139	122	1,655	
1	30	12	107	112	65	51	83	49	43	524	20
(Z)	3	9	29	36	23	18	35	17	27	274	2011
-	(Z)	(Z)	4	1	1	(S)	(S)	(S)	(S)	(S)	2015
(Z)	1	(Z)	8	2	2	(S)	(S)	(S)	(S)	(S)	2021
(Z)	1	1	16	3	1	(S)	(S)	(S)	(S)	(S)	2026
-	14	1	23	33	23	20	31	20	4	51	2063
-	1	(Z)	2	2	1	(S)	(S)	(S)	(S)	(S)	2092
(Z)	1	(Z)	4	1	1	(S)	(S)	(S)	(S)	(S)	2094
(Z)	(Z)	(Z)	1	1	(Z)	(S)	(S)	(S)	(S)	(S)	2099
(Z)	(Z)	(Z)	6	5	1	20	38	20	3	32	26
(Z)	14	2	17	72	15	15	47	13	5	136	28
-	1	(Z)	3	5	1	(S)	(S)	(S)	(S)	(S)	2813
-	8	1	6	53	10	(S)	(S)	(S)	(S)	(S)	2819
(Z)	2	(Z)	4	14	3	3	11	3	10	135	30
(Z)	3	1	9	6	3	9	65	8	5	78	32
(Z)	1	(Z)	6	2	1	(S)	(S)	(S)	(S)	(S)	3241
-	5	(Z)	9	23	14	16	24	16	7	110	33
-	(Z)	(Z)	4	2	1	(S)	(S)	(S)	(S)	(S)	36
-	1	1	7	15	2	3	5	3	13	222	37
16	50	27	220	1,850	174	197	1,399	162	125	2,288	
(Z)	5	3	59	16	10	7	12	6	12	102	20
-	1	1	7	3	2	(S)	(S)	(S)	(S)	(S)	2011
(Z)	(Z)	(Z)	12	2	2	(S)	(S)	(S)	(S)	(S)	2015
-	1	(Z)	4	1	1	(S)	(S)	(S)	(S)	(S)	2023
(Z)	1	(Z)	11	1	1	(S)	(S)	(S)	(S)	(S)	2026
(Z)	(Z)	1	10	2	1	1	3	1	6	33	24
(Z)	(Z)	(Z)	8	2	(Z)	(S)	(S)	(S)	(S)	(S)	2421
1	1	5	19	426	67	62	438	60	13	201	26
-	(Z)	2	5	310	37	37	250	35	6	86	2621
12	23	7	35	746	48	48	185	42	9	187	28
11	5	3	9	135	22	21	86	18	4	81	2819
(Z)	3	(Z)	4	5	3	(S)	(S)	(S)	(S)	(S)	2899
(Z)	17	9	36	549	15	32	624	14	12	300	29
(Z)	17	9	32	548	15	32	624	14	12	299	2911
(Z)	1	(Z)	18	8	2	3	8	1	6	104	32
(Z)	1	(Z)	10	3	(Z)	(S)	(S)	(S)	(S)	(S)	3241
-	(Z)	(Z)	7	1	1	(S)	(S)	(S)	(S)	(S)	34
-	(Z)	1	3	1	1	(S)	(S)	(S)	(S)	(S)	35
(Z)	(Z)	(Z)	6	2	1	(S)	(S)	(S)	(S)	(S)	36
-	(Z)	1	6	5	2	1	3	1	41	345	37
525	881	62	253	5,336	1,700	1,489	4,490	1,398	183	3,054	
1	4	3	50	37	7	5	29	4	17	190	20
(Z)	(Z)	(Z)	9	9	2	(S)	(S)	(S)	(S)	(S)	2011
(Z)	(Z)	(Z)	1	1	1	(S)	(S)	(S)	(S)	(S)	2015
-	(Z)	(Z)	10	1	(Z)	(S)	(S)	(S)	(S)	(S)	2026
(Z)	(Z)	1	5	5	1	(S)	(S)	(S)	(S)	(S)	2082
-	(Z)	(Z)	1	1	1	1	1	1	3	15	22
5	1	1	5	19	1	2	3	1	3	14	24
371	534	20	76	2,291	1,171	1,062	1,695	1,024	30	1,105	28
80	119	(Z)	4	242	199	198	212	196	3	72	2812
(Z)	4	1	13	135	5	9	106	6	3	67	2819
-	2	2	8	85	5	(S)	(S)	(S)	(S)	(S)	2822
-	(Z)	(Z)	4	3	(Z)	(S)	(S)	(S)	(S)	(S)	2895
(Z)	(Z)	1	4	5	1	(S)	(S)	(S)	(S)	(S)	2899
46	293	34	42	2,491	334	313	2,287	277	40	591	29
1	1	(Z)	24	12	3	3	7	2	4	85	32
92	33	1	16	338	139	64	211	57	11	193	33

TABLE 2. Water Intake by Purpose, 1964, Gross Water

B. WATER USE REGIONS, MAJOR INDUSTRY

Code	Water use regions, major industry groups, and industries	1964					
		Establishments reporting consumption of water			Water intake by purpose		
		All employees (number)	Value added by manufacture, adjusted (million dollars)	Total (number)	All purposes		Process (billion gallons)
					Total (billion gallons)	Treated prior to use (billion gallons)	
	Western Gulf—Continued						
35	Machinery, except electrical	8,527	132	11	1	(Z)	(Z)
3533	Oil field machinery	5,871	96	6	1	(Z)	(Z)
37	Transportation equipment	39,312	546	15	14	1	2
3731	Ship building and repairing	3,488	36	4	1	(Z)	1
	Colorado Basin	28,375	391	43	23	8	15
20	Food and kindred products	1,670	21	9	3	2	1
29	Petroleum and coal products	335	12	3	1	1	1
2911	Petroleum refining	335	12	3	1	1	1
32	Stone, clay, and glass products	1,188	25	6	1	-	1
33	Primary metal industries	4,660	86	11	11	3	9
	Great Basin	28,241	482	45	33	9	11
20	Food and kindred products	2,746	40	21	3	2	1
29	Petroleum and coal products	674	21	3	2	1	(Z)
2911	Petroleum refining	674	21	3	2	1	(Z)
32	Stone, clay, and glass products	598	14	4	1	(Z)	(Z)
33	Primary metal industries	7,352	211	7	21	6	10
	California	485,705	6,871	579	347	71	89
20	Food and kindred products	65,916	1,064	257	61	11	23
2011	Meat slaughtering plants	3,330	43	13	1	(Z)	(Z)
2015	Poultry dressing plants	609	3	4	1	(Z)	(Z)
2026	Fluid milk	6,501	90	27	2	1	1
2031	Canned and cured seafoods	3,345	52	5	1	(Z)	1
2032	Canned specialties	3,076	75	5	2	2	2
2033	Canned fruits and vegetables	18,006	236	54	13	1	7
2034	Dehydrated foods products	3,960	48	15	2	(Z)	2
2037	Frozen fruits and vegetables	3,834	37	16	2	(Z)	2
2063	Beet sugar	2,874	41	10	10	3	3
2082	Malt liquors	3,724	90	11	3	1	1
2084	Wines and brandy	1,548	40	19	4	(Z)	1
2086	Bottled and canned soft drinks	1,633	30	11	1	(Z)	(Z)
2094	Animal and marine fats and oils	330	6	9	1	(Z)	(Z)
2096	Shortening and cooking oils	763	20	5	1	1	(Z)
24	Lumber and wood products	11,943	105	32	32	1	17
2421	Sawmills and planing mills	9,360	79	23	30	1	17
26	Paper and allied products	5,343	98	28	28	10	15
2621	Paper mills, except building	742	17	5	7	2	2
2631	Paperboard mills	2,429	49	11	17	8	11
2646	Pressed and molded pulp goods	731	16	4	1	(Z)	1
2661	Building paper and board mills	215	2	4	1	(Z)	(Z)
28	Chemicals and allied products	10,465	324	54	36	11	7
2818	Organic chemicals, n.e.c.	1,629	58	8	3	2	1
2819	Inorganic chemicals, n.e.c.	2,434	59	16	15	3	3
2821	Plastics materials and resins	396	23	6	1	(Z)	(Z)
29	Petroleum and coal products	14,813	412	19	140	16	2
30	Rubber and plastics products, n.e.c.	6,829	95	8	1	(Z)	(Z)
32	Stone, clay, and glass products	15,281	266	50	21	11	15
3241	Cement, hydraulic	4,010	87	12	7	(Z)	2
33	Primary metal industries	23,167	319	23	14	6	5
34	Fabricated metal products	10,193	121	22	1	(Z)	1
35	Machinery, except electrical	9,821	99	8	1	(Z)	(Z)
36	Electrical machinery	76,680	932	28	2	(Z)	1
3662	Radio, TV communications equipment	53,086	661	6	1	(Z)	(Z)

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959—Continued

GROUPS, AND INDUSTRIES—Continued

1964--Continued						1959					Code
Water intake by purpose--Continued			Establishments recirculating or reusing water (number)	Gross water used, including recirculation or reuse (billion gallons)	Total water discharged (billion gallons)	Total water intake (billion gallons)	Gross water used, including recirculation or reuse (billion gallons)	Total water discharged (billion gallons)	All employees (1,000)	Value added by manufacture, adjusted (million dollars)	
Cooling and condensing		Boiler feed, sanitary service, and other uses (billion gallons)									
Steam electric power generation (billion gallons)	Other (billion gallons)										
(Z)	(Z)	(Z)	9	27	1	2	22	2	8	110	35
(Z)	(Z)	(Z)	5	25	1	(S)	(S)	(S)	(S)	(S)	3533
-	11	1	11	57	14	4	38	3	48	491	37
-	(Z)	(Z)	1	1	1	(S)	(S)	(S)	(S)	(S)	3731
1	5	2	36	148	16	19	127	7	21	223	
(Z)	1	(Z)	8	4	2	1	4	1	1	16	20
-	(Z)	(Z)	3	10	(Z)	(S)	(S)	(S)	(S)	(S)	29
-	(Z)	(Z)	3	10	(Z)	(S)	(S)	(S)	(S)	(S)	2911
-	(Z)	(Z)	2	1	1	(S)	(S)	(S)	(S)	(S)	32
1	1	1	10	104	7	11	98	3	5	38	33
4	13	4	33	182	29	31	128	23	13	186	
(Z)	2	1	13	5	3	5	8	5	3	22	20
-	2	1	3	19	2	(S)	(S)	(S)	(S)	(S)	29
-	2	1	3	19	2	(S)	(S)	(S)	(S)	(S)	2911
-	(Z)	(Z)	4	1	(Z)	(S)	(S)	(S)	(S)	(S)	32
3	6	2	6	147	19	(S)	(S)	(S)	(S)	(S)	33
21	189	48	443	1,278	318	326	1,191	284	493	5,547	
4	24	10	183	102	54	49	94	42	61	828	20
(Z)	(Z)	1	9	2	1	(S)	(S)	(S)	(S)	(S)	2011
-	(Z)	(Z)	-	1	1	(S)	(S)	(S)	(S)	(S)	2015
(Z)	(Z)	1	17	3	2	(S)	(S)	(S)	(S)	(S)	2026
-	(Z)	(Z)	-	1	1	(S)	(S)	(S)	(S)	(S)	2031
(Z)	(Z)	(Z)	4	2	2	(S)	(S)	(S)	(S)	(S)	2032
(Z)	4	1	47	21	12	12	16	10	18	237	2033
-	(Z)	(Z)	12	4	2	(S)	(S)	(S)	(S)	(S)	2034
(Z)	(Z)	(Z)	11	5	2	(S)	(S)	(S)	(S)	(S)	2037
-	7	1	10	19	8	10	17	7	3	34	2063
(Z)	(Z)	2	9	6	2	(S)	(S)	(S)	(S)	(S)	2082
-	2	1	12	5	4	(S)	(S)	(S)	(S)	(S)	2084
-	(Z)	(Z)	9	1	(Z)	(S)	(S)	(S)	(S)	(S)	2086
(Z)	1	(Z)	3	1	1	(S)	(S)	(S)	(S)	(S)	2094
(Z)	(Z)	(Z)	5	5	1	(S)	(S)	(S)	(S)	(S)	2096
8	1	6	24	40	29	18	30	15	14	112	24
8	(Z)	5	16	37	28	16	27	13	10	81	2421
7	3	3	27	126	24	27	184	25	7	96	26
4	1	(Z)	5	46	7	(S)	(S)	(S)	(S)	(S)	2621
3	2	1	11	71	15	14	60	14	2	36	2631
-	(Z)	(Z)	4	4	1	(S)	(S)	(S)	(S)	(S)	2646
(Z)	(Z)	(Z)	4	2	(Z)	(S)	(S)	(S)	(S)	(S)	2661
(Z)	22	8	46	131	31	33	124	25	12	327	28
-	1	1	7	38	2	(S)	(S)	(S)	(S)	(S)	2818
-	6	5	15	43	14	10	63	8	3	68	2819
-	1	(Z)	5	17	1	(S)	(S)	(S)	(S)	(S)	2821
1	126	11	17	569	138	150	555	136	17	325	29
-	1	(Z)	7	12	1	1	8	1	10	122	30
(Z)	4	2	36	32	17	21	36	18	14	229	32
(Z)	4	2	8	9	4	(S)	(S)	(S)	(S)	(S)	3241
(Z)	7	2	22	155	10	12	103	9	24	295	33
(Z)	(Z)	(Z)	14	2	1	1	3	1	9	122	34
(Z)	(Z)	(Z)	5	4	1	1	2	(Z)	11	107	35
(Z)	(Z)	1	20	11	2	1	1	1	20	252	36
-	(Z)	1	4	4	1	(S)	(S)	(S)	(S)	(S)	3662

TABLE 2. Water Intake by Purpose, 1964, Gross Water

B. WATER USE REGIONS, MAJOR INDUSTRY

Code	Water use regions, major industry groups, and industries	1964					
		Establishments reporting consumption of water			Water intake by purpose		
		All employees (number)	Value added by manufacture, adjusted (million dollars)	Total (number)	All purposes		Process (billion gallons)
					Total (billion gallons)	Treated prior to use (billion gallons)	
	California—Continued						
37	Transportation equipment	125,915	1,717	29	7	3	2
3721	Aircraft	67,415	771	7	3	1	1
3729	Aircraft equipment, n.e.c.	18,869	248	10	1	(Z)	(Z)
	Pacific Northwest	180,704	2,742	352	581	208	344
20	Food and kindred products	23,384	311	130	39	8	20
2011	Meat slaughtering plants	2,560	30	11	6	(Z)	1
2021	Creamery butter	387	5	5	2	-	(Z)
2023	Condensed and evaporated milk	174	5	4	1	(Z)	(Z)
2026	Fluid milk	2,649	29	19	2	(Z)	1
2033	Canned fruits and vegetables	5,063	57	25	4	(Z)	3
2037	Frozen fruits and vegetables	5,833	51	25	9	(Z)	6
2082	Malt liquors	1,648	46	5	1	(Z)	1
24	Lumber and wood products	30,733	276	90	95	7	30
2421	Sawmills and planing mills	18,217	146	45	70	6	13
26	Paper and allied products	19,620	392	47	337	180	276
2611	Pulp mills	3,216	76	11	92	68	76
2621	Paper mills, except building	10,664	186	18	162	70	137
2631	Paperboard mills	4,903	118	13	80	42	61
28	Chemicals and allied products	12,458	294	22	54	7	4
2819	Inorganic chemicals, n.e.c.	11,009	248	9	31	6	3
29	Petroleum and coal products	1,048	57	5	3	2	(Z)
2911	Petroleum refining	1,048	57	5	3	2	(Z)
32	Stone, clay, and glass products	2,144	32	17	4	(Z)	3
3241	Cement, hydraulic	842	14	8	1	(Z)	(Z)
33	Primary metal industries	12,613	258	23	43	4	10
3313	Electrometallurgical products	638	7	3	2	1	(Z)
3334	Primary aluminum	4,760	159	7	18	(Z)	5
37	Transportation equipment	70,790	1,046	9	4	(Z)	1
	Cumberland	12,706	229	29	20	9	4
20	Food and kindred products	1,841	17	6	1	(Z)	(Z)
32	Stone, clay, and glass products	3,117	69	4	6	6	3
	Alaska	1,555	29	6	34	10	31
	Hawaii	11,114	117	30	112	3	79
20	Food and kindred products	10,775	113	27	110	2	78
2033	Canned fruits and vegetables	6,993	59	6	4	(Z)	2
2061	Raw cane sugar	2,936	42	15	105	2	77

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries whether or not separate figures are shown for the individual industries.

- Represents zero.
r Revised.
(S) Figures did not meet publication standards.
(X) Not applicable.
(Z) Less than 500 million gallons.
1 Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 23 and 27. In 1959, such establishments had total water intake of 23 billion gallons, gross water use of 58 billion gallons, discharge of 22 billion gallons of water, and 152 thousand employees. Data for Major Group 19 is included in all total figures but was considered too insignificant to publish.

Used, and Water Discharged, 1964 and 1959—Continued

GROUPS, AND INDUSTRIES—Continued

1964--Continued						1959					Code
Water intake by purpose--Continued			Establishments recirculating or reusing water (number)	Gross water used, including recirculation or reuse (billion gallons)	Total water discharged (billion gallons)	Total water intake (billion gallons)	Gross water used, including recirculation or reuse (billion gallons)	Total water discharged (billion gallons)	All employees (1,000)	Value added by manufacture, adjusted (million dollars)	
Cooling and condensing		Boiler feed, sanitary service, and other uses (billion gallons)									
Steam electric power generation (billion gallons)	Other (billion gallons)										
(Z)	2	3	28	72	6	10	35	9	194	1,624	37
-	1	1	7	11	2	(S)	(S)	(S)	(S)	(S)	3721
-	(Z)	(Z)	10	5	1	(S)	(S)	(S)	(S)	(S)	3729
60	115	59	221	1,415	541	468	1,107	446	166	1,827	
(Z)	14	5	70	53	37	24	38	23	17	197	20
-	2	3	5	7	5	(S)	(S)	(S)	(S)	(S)	2011
-	1	(Z)	2	2	1	(S)	(S)	(S)	(S)	(S)	2021
-	(Z)	(Z)	-	1	1	(S)	(S)	(S)	(S)	(S)	2023
(Z)	(Z)	(Z)	12	2	2	(S)	(S)	(S)	(S)	(S)	2026
(Z)	(Z)	(Z)	18	5	4	(S)	(S)	(S)	(S)	(S)	2033
(Z)	3	(Z)	20	14	9	(S)	(S)	(S)	(S)	(S)	2037
(Z)	1	(Z)	4	2	1	(S)	(S)	(S)	(S)	(S)	2082
47	5	14	55	118	83	111	131	104	36	303	24
42	3	12	30	86	59	98	117	93	22	184	2421
4	35	22	43	989	325	255	791	248	17	335	26
3	8	5	10	319	91	85	202	85	4	49	2611
1	13	12	17	373	155	132	433	127	9	165	2621
(Z)	14	5	13	294	78	36	152	34	4	87	2631
8	34	9	17	117	45	24	26	22	2	54	28
8	16	4	8	79	23	(S)	(S)	(S)	(S)	(S)	2819
-	2	1	5	54	2	3	48	2	1	31	29
-	2	1	5	54	2	(S)	(S)	(S)	(S)	(S)	2911
-	1	(Z)	4	4	4	2	3	2	2	19	32
-	(Z)	(Z)	3	1	1	(S)	(S)	(S)	(S)	(S)	3241
(Z)	26	7	16	60	40	47	65	43	14	231	33
-	2	(Z)	2	6	2	(S)	(S)	(S)	(S)	(S)	3313
-	8	5	6	23	18	16	21	16	4	124	3334
-	2	2	7	18	4	3	3	3	71	599	37
1	13	2	21	41	19	16	35	16	14	128	
-	(Z)	(Z)	4	1	1	1	2	1	2	11	20
-	3	(Z)	4	12	6	(S)	(S)	(S)	(S)	(S)	32
1	(Z)	2	4	95	34	84	136	74	16	143	
16	12	5	23	245	102						
16	11	5	20	229	100	(S)	(S)	(S)	(S)	(S)	20
-	2	1	4	5	4	(S)	(S)	(S)	(S)	(S)	2033
16	8	4	12	223	96	61	112	53	5	55	2061

TABLE 2. Water Intake by Purpose, 1964, Gross Water

C. STATES AND MAJOR

Code	States and major industry groups	1964					
		Establishments reporting consumption of water			Water intake by purpose		
					All purposes		
		All employees	Value added by manufacture, adjusted	Total	Total	Treated prior to use	Process
		(1,000)	(million dollars)	(number)	(billion gallons)	(billion gallons)	(billion gallons)
	United States, total[1]	6,397	94,706	8,925	14,045	2,932	3,703
	New England division	473	5,376	712	532	169	260
	Maine	30	326	64	173	77	122
20	Food and kindred products	3	23	13	2	1	1
22	Textile mill products	6	39	12	4	1	3
26	Paper and allied products	15	206	22	154	76	116
31	Leather and leather products	2	12	7	2	(Z)	1
	New Hampshire	15	158	40	36	25	32
22	Textile mill products	2	19	8	4	2	3
31	Leather and leather products	1	5	3	1	-	1
36	Electrical machinery	4	49	5	1	(Z)	(Z)
	Vermont	10	88	28	7	2	4
20	Food and kindred products	(Z)	4	8	1	(Z)	(Z)
26	Paper and allied products	1	7	7	5	2	3
	Massachusetts	203	2,360	304	154	46	63
20	Food and kindred products	9	136	28	12	1	1
22	Textile mill products	16	135	45	12	5	8
26	Paper and allied products	16	173	57	47	35	37
28	Chemicals and allied products	8	140	27	14	2	4
30	Rubber and plastics products, n.e.c.	17	167	24	12	1	2
31	Leather and leather products	3	22	7	1	(Z)	1
33	Primary metal industries	10	90	19	11	1	5
34	Fabricated metal products	10	185	15	4	(Z)	1
36	Electrical machinery	52	559	27	5	1	1
37	Transportation equipment	6	94	6	1	(Z)	(Z)
38	Instruments and related products	14	177	9	5	(Z)	1
39	Miscellaneous manufacturing	7	88	9	1	(Z)	(Z)
	Rhode Island	30	291	67	17	3	7
20	Food and kindred products	1	17	5	2	1	(Z)
22	Textile mill products	6	41	22	4	1	4
30	Rubber and plastics products, n.e.c.	4	41	6	1	(Z)	(Z)
33	Primary metal industries	5	53	11	5	(Z)	2
	Connecticut	185	2,153	209	145	16	32
22	Textile mill products	5	43	14	4	1	2
26	Paper and allied products	2	29	14	9	5	7
28	Chemicals and allied products	6	116	10	30	2	2
30	Rubber and plastics products, n.e.c.	12	130	18	8	1	(Z)
33	Primary metal industries	16	208	33	26	4	10
34	Fabricated metal products	14	131	30	2	(Z)	2
35	Machinery, except electrical	26	301	17	2	(Z)	1
36	Electrical machinery	15	206	16	3	(Z)	1
38	Instruments and related products	6	62	7	2	(Z)	1
39	Miscellaneous manufacturing	6	71	11	5	(Z)	2
	Middle Atlantic division	1,289	18,667	1,647	2,596	449	538
	New York	478	7,010	565	629	88	168
20	Food and kindred products	48	855	151	34	2	7
22	Textile mill products	7	55	23	5	1	2
26	Paper and allied products	15	165	61	133	50	63
28	Chemicals and allied products	34	894	59	135	9	16
30	Rubber and plastics products, n.e.c.	7	80	12	5	2	2
31	Leather and leather products	2	18	13	4	(Z)	4
32	Stone, clay, and glass products	17	203	36	12	3	3
33	Primary metal industries	50	705	54	213	9	56
34	Fabricated metal products	8	102	16	2	(Z)	1
35	Machinery, except electrical	62	708	29	23	1	2
36	Electrical machinery	95	1,082	47	11	1	2
37	Transportation equipment	71	1,079	23	7	(Z)	2
38	Instruments and related products	51	935	23	13	8	7
	New Jersey	292	4,731	421	416	123	88
20	Food and kindred products	26	557	61	16	5	6
22	Textile mill products	5	59	27	6	3	5
26	Paper and allied products	6	97	24	25	9	15
28	Chemicals and allied products	56	1,454	112	154	85	18
29	Petroleum and coal products	6	185	11	135	7	23
30	Rubber and plastics products, n.e.c.	11	117	28	5	(Z)	1
31	Leather and leather products	1	11	4	1	(Z)	1

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959

INDUSTRY GROUPS

1964--Continued						1959			Code
Water intake by purpose--Continued			Establishments recirculating or reusing water	Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	
Cooling and condensing		Boiler feed, sanitary service, and other uses							
Steam electric power generation (billion gallons)	Other (billion gallons)	(billion gallons)	(number)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	
2,856	6,529	959	6,142	30,599	13,157	r12,131	r26,257	r11,445	
96	137	39	452	912	483	561	849	498	
28	11	12	40	393	163	138	281	135	
(Z)	(Z)	(Z)	6	3	2	2	3	2	20
-	(Z)	1	5	4	4	124	3	2	22
22	6	10	20	369	144	124	266	122	26
(Z)	(Z)	(Z)	3	2	1	1	1	1	31
1	2	1	26	79	35	54	64	41	
(Z)	(Z)	(Z)	3	4	3	6	6	6	22
-	-	(Z)	1	1	1	1	1	1	31
-	(Z)	(Z)	4	1	1	(S)	(S)	(S)	36
2	1	1	18	9	7	8	16	8	
(Z)	(Z)	(Z)	6	1	1	(S)	(S)	(S)	20
2	-	(Z)	4	6	5	7	14	7	26
39	38	14	196	207	144	189	264	169	
1	8	1	23	14	11	14	17	14	20
1	2	1	20	13	11	9	10	7	22
3	4	3	45	65	45	58	106	45	26
2	5	3	19	24	13	15	18	14	28
1	8	1	18	17	11	15	20	15	30
(Z)	-	(Z)	1	2	1	2	2	2	31
(Z)	4	1	9	12	11	8	9	8	33
1	1	1	7	5	3	2	2	2	34
1	2	1	21	7	5	11	18	11	36
(Z)	(Z)	1	5	2	1	1	2	1	37
3	1	(Z)	9	7	5	5	5	5	38
-	1	(Z)	3	2	1	4	5	4	39
2	6	2	37	19	16	18	23	17	
(Z)	1	(Z)	4	2	2	1	2	1	20
(Z)	(Z)	(Z)	9	4	4	7	8	7	22
-	(Z)	(Z)	4	1	1	1	2	1	30
2	1	(Z)	9	5	4	4	5	4	33
24	79	9	135	205	118	154	201	128	
1	(Z)	(Z)	8	4	4	3	4	3	22
1	(Z)	1	13	18	6	11	35	9	26
6	21	1	9	37	9	29	35	27	28
1	7	(Z)	12	28	8	7	12	7	30
8	6	1	27	40	24	23	30	23	33
(Z)	(Z)	(Z)	10	4	2	3	3	3	34
(Z)	1	1	8	4	2	3	3	3	35
-	1	1	8	3	3	2	3	2	36
(Z)	(Z)	1	4	2	2	(S)	(S)	(S)	38
2	(Z)	(Z)	9	5	5	5	5	5	39
470	1,393	198	1,131	4,771	2,439	2,439	4,686	2,326	
98	304	60	390	1,054	569	618	945	587	
(Z)	22	5	106	70	32	42	52	39	20
1	1	Z)	11	52	5	4	5	4	22
47	3	19	53	205	127	151	279	145	26
3	106	9	42	166	124	139	196	132	28
(Z)	2	1	10	8	4	5	8	4	30
(Z)	(Z)	(Z)	4	4	4	1	2	1	31
3	4	2	16	13	10	16	20	14	32
41	106	10	35	351	177	153	192	145	33
(Z)	(Z)	(Z)	10	3	2	1	2	1	34
(Z)	17	4	19	37	23	42	50	41	35
(Z)	5	4	34	18	12	8	15	8	36
(Z)	3	2	18	36	7	14	21	14	37
(Z)	3	2	20	50	11	11	46	10	38
35	265	28	311	814	395	431	1,070	415	
(Z)	6	3	46	23	15	20	320	19	20
1	(Z)	(Z)	9	6	6	9	11	9	22
8	2	1	23	155	24	55	158	54	26
9	121	8	86	232	143	139	213	131	28
1	103	8	7	284	131	238	240	110	29
(Z)	4	1	19	8	5	4	5	3	30
-	(Z)	(Z)	3	1	1	1	1	1	31

TABLE 2. Water Intake by Purpose, 1964, Gross Water

C. STATES AND MAJOR

Code	States and major industry groups	1964					
		Establishments reporting consumption of water			Water intake by purpose		
					All purposes		
		All employees (1,000)	Value added by manufacture, adjusted (million dollars)	Total (number)	Total (billion gallons)	Treated prior to use (billion gallons)	Process (billion gallons)
	Middle Atlantic division--Continued						
	New Jersey--Continued						
32	Stone, clay, and glass products	16	182	24	14	9	10
33	Primary metal industries	22	243	44	33	1	6
34	Fabricated metal products	11	157	17	2	(Z)	1
35	Machinery, except electrical	16	251	15	8	(Z)	(Z)
36	Electrical machinery	70	723	32	11	1	1
37	Transportation equipment	34	559	12	4	1	1
38	Instruments and related products	6	117	5	3	1	(Z)
39	Miscellaneous manufacturing	2	19	5	1	1	(Z)
	Pennsylvania	519	6,926	661	1,551	238	282
20	Food and kindred products	32	525	96	31	3	4
22	Textile mill products	11	89	33	4	2	3
26	Paper and allied products	16	248	40	79	42	52
28	Chemicals and allied products	29	710	66	150	15	11
29	Petroleum and coal products	12	165	20	115	13	2
30	Rubber and plastics products, n.e.c.	12	171	28	6	1	1
31	Leather and leather products	2	13	8	1	1	1
32	Stone, clay, and glass products	24	292	62	31	5	10
33	Primary metal industries	178	2,342	121	1,078	152	184
34	Fabricated metal products	35	401	56	12	1	6
36	Electrical machinery	66	782	51	16	2	2
37	Transportation equipment	40	447	20	8	1	4
38	Instruments and related products	11	141	10	1	(Z)	(Z)
39	Miscellaneous manufacturing	6	110	10	1	(Z)	(Z)
	East North Central division	2,056	31,604	2,422	3,694	401	881
	Ohio	589	8,821	671	1,168	140	179
20	Food and kindred products	28	481	119	15	4	5
22	Textile mill products	3	39	5	1	(Z)	(Z)
26	Paper and allied products	14	207	40	44	21	21
28	Chemicals and allied products	27	616	87	237	17	24
29	Petroleum and coal products	5	128	18	52	4	1
30	Rubber and plastics products, n.e.c.	61	748	53	35	8	4
32	Stone, clay, and glass products	25	370	44	21	1	4
33	Primary metal industries	117	1,719	102	717	75	104
34	Fabricated metal products	36	459	56	7	1	3
35	Machinery, except electrical	57	717	37	9	3	3
36	Electrical machinery	70	987	39	14	2	4
37	Transportation equipment	133	2,211	55	14	4	5
	Indiana	340	5,097	331	843	29	245
20	Food and kindred products	19	385	57	22	4	4
26	Paper and allied products	3	43	11	8	1	4
28	Chemicals and allied products	17	512	29	34	4	2
30	Rubber and plastics products, n.e.c.	14	168	14	5	1	1
32	Stone, clay, and glass products	9	106	21	6	1	2
33	Primary metal industries	79	1,263	42	655	9	206
34	Fabricated metal products	12	134	29	2	(Z)	2
35	Machinery, except electrical	27	375	30	4	1	2
36	Electrical machinery	69	881	36	10	3	3
37	Transportation equipment	71	908	36	12	2	4
	Illinois	439	6,465	582	629	61	123
20	Food and kindred products	55	1,177	147	58	13	13
22	Textile mill products	2	13	7	1	(Z)	(Z)
26	Paper and allied products	6	73	27	19	5	10
28	Chemicals and allied products	23	627	64	39	9	6
29	Petroleum and coal products	9	203	19	76	12	4
30	Rubber and plastics products, n.e.c.	6	95	15	12	1	1
31	Leather and leather products	4	35	7	1	(Z)	1
32	Stone, clay, and glass products	17	245	28	31	2	3
33	Primary metal industries	62	762	55	353	12	69
34	Fabricated metal products	31	381	60	7	1	5
35	Machinery, except electrical	89	1,174	61	18	3	5
36	Electrical machinery	80	901	49	8	1	3
37	Transportation equipment	29	466	19	3	(Z)	1
38	Instruments and related products	20	231	14	3	(Z)	1

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959—Continued

INDUSTRY GROUPS—Continued

1964--Continued						1959			Code
Water intake by purpose--Continued			Establishments recirculating or reusing water (number)	Gross water used, including recirculation or reuse (billion gallons)	Total water discharged (billion gallons)	Total water intake (billion gallons)	Gross water used, including recirculation or reuse (billion gallons)	Total water discharged (billion gallons)	
Cooling and condensing		Boiler feed, sanitary service, and other uses (billion gallons)							
Steam electric power generation (billion gallons)	Other (billion gallons)								
1	1	1	19	16	14	12	21	11	32
7	18	2	37	48	31	42	54	40	33
-	1	1	9	2	2	2	3	1	34
3	4	1	10	11	8	6	7	6	35
5	2	1	27	19	11	23	26	22	36
(Z)	1	2	10	6	4	4	7	4	37
-	1	(Z)	4	2	3	2	3	2	38
-	1	(Z)	2	1	1	(S)	(S)	(S)	39
337	824	110	430	2,903	1,475	1,390	2,671	1,324	
9	15	3	62	53	29	29	40	26	20
(Z)	(Z)	(Z)	8	4	3	4	4	3	22
19	5	3	33	634	68	75	654	67	26
18	114	7	47	223	151	148	203	137	28
(Z)	102	10	15	381	110	113	408	105	29
(Z)	3	1	20	11	5	4	8	4	30
(Z)	(Z)	(Z)	8	1	1	1	1	1	31
9	9	3	33	46	28	38	66	36	32
273	547	74	85	1,412	1,026	933	1,215	900	33
(Z)	4	2	32	51	9	7	10	7	34
8	4	2	35	29	15	9	17	9	36
1	1	1	15	18	8	4	11	4	37
-	(Z)	(Z)	9	2	1	1	1	1	38
-	1	(Z)	4	8	1	1	6	1	39
898	1,660	254	1,661	6,485	3,511	3,260	5,647	3,130	
310	612	67	468	1,935	1,115	1,064	1,642	979	
(Z)	6	3	76	23	13	13	23	11	20
-	1	(Z)	3	1	1	4	5	4	22
18	2	3	35	164	41	40	142	37	26
77	121	15	58	371	229	135	197	103	28
(Z)	49	3	17	221	49	63	164	53	29
10	15	6	37	82	33	39	81	37	30
11	3	3	29	46	19	22	201	19	32
191	399	23	75	938	693	705	898	676	33
(Z)	2	2	31	11	6	5	7	4	34
2	2	2	23	13	8	6	9	5	35
(Z)	7	2	30	19	7	13	16	11	36
(Z)	4	6	44	44	13	18	44	16	37
231	340	27	236	1,283	830	638	987	629	
(Z)	14	4	39	38	18	30	44	27	20
3	1	(Z)	10	14	8	10	16	9	26
1	29	3	24	124	33	36	65	35	28
-	4	1	11	8	5	4	6	4	30
(Z)	2	1	13	7	5	17	18	16	32
223	215	11	30	808	653	424	573	423	33
(Z)	(Z)	(Z)	20	3	2	2	4	2	34
-	1	1	22	8	4	2	4	2	35
(Z)	5	2	26	28	8	7	12	6	36
1	5	2	24	28	12	12	28	10	37
124	340	42	404	1,473	591	588	1,360	550	
1	34	10	98	104	48	50	84	44	20
-	(Z)	(Z)	2	1	1	1	1	1	22
8	1	1	25	83	15	17	38	15	26
1	25	7	60	264	32	39	102	35	28
2	65	5	14	356	88	72	326	66	29
-	10	(Z)	11	14	12	3	4	3	30
-	(Z)	(Z)	3	1	1	1	1	1	31
23	3	2	20	39	29	40	54	30	32
83	194	7	42	506	327	333	664	315	33
(Z)	1	1	34	13	7	6	11	6	34
6	3	3	37	39	18	17	28	16	35
(Z)	2	2	30	33	7	5	20	5	36
(Z)	1	1	13	13	3	4	13	4	37
(Z)	(Z)	2	10	4	3	2	2	2	38

TABLE 2. Water Intake by Purpose, 1964, Gross Water

C. STATES AND MAJOR

Code	States and major industry groups	1964					
		Establishments reporting consumption of water			Water intake by purpose		
					All purposes		
		All employees (1,000)	Value added by manufacture, adjusted (million dollars)	Total (number)	Total (billion gallons)	Treated prior to use (billion gallons)	Process (billion gallons)
	East North Central division--Continued						
	Michigan	474	8,368	467	800	91	198
20	Food and kindred products	20	396	81	16	1	6
26	Paper and allied products	15	202	42	101	47	57
28	Chemicals and allied products	25	602	43	177	24	16
29	Petroleum and coal products	2	68	8	38	2	(Z)
31	Leather and leather products	1	9	4	1	(Z)	1
32	Stone, clay, and glass products	7	159	19	19	1	6
33	Primary metal industries	52	792	60	332	5	85
34	Fabricated metal products	24	340	43	6	(Z)	4
35	Machinery, except electrical	40	517	35	6	(Z)	2
36	Electrical machinery	17	225	14	3	(Z)	1
37	Transportation equipment	249	4,769	96	86	10	18
	Wisconsin	214	2,853	371	254	80	136
20	Food and kindred products	28	428	140	31	4	9
26	Paper and allied products	22	308	52	164	69	101
28	Chemicals and allied products	2	109	10	4	2	2
30	Rubber and plastics products, n.e.c.	3	39	8	2	(Z)	(Z)
31	Leather and leather products	3	32	9	2	(Z)	2
33	Primary metal industries	20	196	33	14	2	7
34	Fabricated metal products	15	166	28	3	(Z)	2
35	Machinery, except electrical	47	577	36	14	1	4
36	Electrical machinery	27	355	19	5	(Z)	1
38	Instruments and related products	4	50	5	1	(Z)	(Z)
	West North Central division	382	5,860	643	378	77	101
	Minnesota	81	1,166	157	92	20	33
20	Food and kindred products	26	324	96	28	7	10
26	Paper and allied products	7	107	10	36	7	17
29	Petroleum and coal products	1	33	5	3	2	1
	Iowa	79	1,165	134	106	16	17
20	Food and kindred products	31	468	82	47	13	11
28	Chemicals and allied products	2	44	6	16	1	1
36	Electrical machinery	14	188	6	1	(Z)	(Z)
	Missouri	137	2,260	186	89	16	28
20	Food and kindred products	22	335	74	20	3	5
28	Chemicals and allied products	11	248	27	30	8	7
32	Stone, clay, and glass products	4	65	12	10	1	2
34	Fabricated metal products	6	92	13	1	(Z)	1
35	Machinery, except electrical	8	84	9	1	(Z)	(Z)
36	Electrical machinery	11	98	11	1	(Z)	1
	North Dakota	1	17	8	2	1	(Z)
	South Dakota	5	67	17	6	1	3
	Nebraska	23	285	61	25	9	7
20	Food and kindred products	12	127	43	14	1	7
	Kansas	56	900	80	58	14	13
20	Food and kindred products	8	84	29	6	1	2
28	Chemicals and allied products	4	151	16	33	5	8
29	Petroleum and coal products	3	103	11	8	5	(Z)
32	Stone, clay, and glass products	3	45	9	4	1	1
37	Transportation equipment	31	417	5	2	1	(Z)
	South Atlantic division	792	10,869	1,137	2,313	728	581
	Delaware	25	508	45	170	28	10
26	Paper and allied products	(Z)	5	4	4	2	4
28	Chemicals and allied products	7	162	9	43	20	1
	Maryland	124	1,674	143	433	343	63
20	Food and kindred products	16	243	61	14	1	3
28	Chemicals and allied products	8	189	20	46	13	3
30	Rubber and plastics products, n.e.c.	7	63	5	5	2	2
32	Stone, clay, and glass products	5	67	12	5	(Z)	2
34	Fabricated metal products	2	37	6	1	(Z)	(Z)
36	Electrical machinery	20	240	8	2	(Z)	(Z)
37	Transportation equipment	24	254	9	3	(Z)	1

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959—Continued

INDUSTRY GROUPS—Continued

1964--Continued						1959			Code
Water intake by purpose--Continued			Establishments recirculating or reusing water (number)	Gross water used, including recirculation or reuse (billion gallons)	Total water discharged (billion gallons)	Total water intake (billion gallons)	Gross water used, including recirculation or reuse (billion gallons)	Total water discharged (billion gallons)	
Cooling and condensing		Boiler feed, sanitary service, and other uses (billion gallons)							
Steam electric power generation (billion gallons)	Other (billion gallons)								
181	324	96	307	1,299	739	r767	r1,186	r780	
1	6	3	62	23	13	12	19	11	20
35	4	6	37	243	77	95	244	91	26
17	126	19	22	215	160	241	278	232	28
-	37	1	6	79	37	18	38	16	29
-	(Z)	(Z)	3	1	1	(S)	(S)	(S)	31
10	3	1	10	24	18	64	68	62	32
113	128	6	37	475	323	257	375	254	33
(Z)	1	1	24	10	6	6	7	6	34
(Z)	2	2	18	14	6	11	22	11	35
(Z)	1	1	11	3	2	2	4	2	36
(Z)	12	56	66	192	83	86	155	83	37
52	44	22	246	495	236	203	472	192	
4	14	4	91	48	29	26	44	25	20
39	15	9	50	349	151	132	353	124	26
(Z)	2	1	5	5	4	4	4	4	28
(Z)	1	(Z)	5	3	2	(S)	(S)	(S)	30
(Z)	(Z)	(Z)	4	2	2	2	2	2	31
1	5	2	19	19	14	11	13	10	33
(Z)	1	(Z)	15	4	3	3	8	2	34
6	2	2	27	21	12	12	17	11	35
(Z)	1	3	11	8	5	2	5	2	36
-	(Z)	(Z)	3	1	1	(S)	(S)	(S)	38
72	157	46	440	893	345	341	789	313	
17	32	9	108	208	87	98	172	92	
4	10	4	70	49	26	21	31	19	20
13	3	3	9	69	35	48	85	45	26
(Z)	2	1	5	54	2	(S)	(S)	(S)	29
36	46	7	86	149	103	93	r131	89	
5	26	4	53	64	45	40	62	38	20
(Z)	15	1	5	36	16	5	7	4	28
-	(Z)	(Z)	5	3	1	(S)	(S)	(S)	36
7	37	17	126	221	82	73	186	66	
1	8	6	43	36	18	17	24	15	20
2	18	3	19	73	29	20	59	18	28
4	2	2	9	11	8	8	20	7	32
-	(Z)	(Z)	6	1	1	(S)	(S)	(S)	34
-	(Z)	1	8	2	1	1	1	1	35
(Z)	(Z)	(Z)	9	2	1	1	3	1	36
(Z)	1	(Z)	5	23	1	4	19	4	
(Z)	2	1	10	15	5				
(Z)	15	3	39	46	24	23	35	22	
(Z)	5	3	27	22	14	12	20	12	20
12	24	9	66	231	43	50	246	40	
(Z)	3	1	21	22	5	7	12	6	20
11	10	3	15	82	25	23	72	21	28
(Z)	5	3	10	96	5	10	148	5	29
(Z)	3	(Z)	6	5	2	3	5	3	32
-	1	1	4	13	2	2	3	2	37
414	1,190	127	771	4,120	2,200	1,871	3,501	1,789	
43	112	5	33	286	164	158	188	155	
-	-	(Z)	4	5	4	(S)	(S)	(S)	26
13	27	2	8	61	42	28	33	28	28
113	233	23	96	531	401	277	398	266	
(Z)	8	3	39	17	13	13	16	12	20
2	40	1	12	54	45	38	43	36	28
1	1	1	5	8	3	5	7	4	30
1	2	(Z)	9	7	6	4	4	4	32
(Z)	(Z)	(Z)	3	1	(Z)	1	1	2	34
-	2	(Z)	5	4	2	1	1	1	36
-	(Z)	1	7	6	2	3	6	3	37

TABLE 2. Water Intake by Purpose, 1964, Gross Water

C. STATES AND MAJOR

Code	States and major industry groups	1964					
		Establishments reporting consumption of water			Water intake by purpose		
					All purposes		
		All employees (1,000)	Value added by manufacture, adjusted (million dollars)	Total (number)	Total (billion gallons)	Treated prior to use (billion gallons)	Process (billion gallons)
	South Atlantic division--Continued						
	Virginia	129	1,741	147	278	50	62
20	Food and kindred products	9	108	30	3	1	1
22	Textile mill products	24	182	21	10	8	8
26	Paper and allied products	7	128	12	63	18	39
28	Chemicals and allied products	30	526	29	162	21	11
30	Rubber and plastics products, n.e.c	3	27	8	2	1	(Z)
32	Stone, clay, and glass products	2	35	10	5	(Z)	(Z)
33	Primary metal industries	3	31	6	2	(Z)	1
	West Virginia	61	1,433	84	678	31	86
28	Chemicals and allied products	22	769	31	477	23	13
	North Carolina	168	2,072	238	152	77	80
20	Food and kindred products	8	79	37	5	2	2
21	Tobacco manufactures	18	705	7	2	(Z)	1
22	Textile mill products	97	688	137	27	19	20
26	Paper and allied products	8	124	7	67	49	50
28	Chemicals and allied products	10	176	14	12	7	3
36	Electrical machinery	13	163	11	2	(Z)	1
	South Carolina	115	1,154	158	109	50	49
20	Food and kindred products	2	15	14	1	(Z)	(Z)
22	Textile mill products	78	588	96	30	23	22
28	Chemicals and allied products	14	309	14	33	8	8
35	Machinery, except electrical	4	35	5	1	(Z)	(Z)
	Georgia	109	1,390	200	228	69	123
20	Food and kindred products	14	166	55	11	1	3
22	Textile mill products	45	325	72	18	11	13
26	Paper and allied products	11	260	17	163	51	98
28	Chemicals and allied products	4	117	19	29	3	4
32	Stone, clay, and glass products	4	53	13	3	(Z)	2
34	Fabricated metal products	2	21	5	1	(Z)	(Z)
37	Transportation equipment	22	385	5	2	1	1
	Florida	59	874	116	265	80	108
20	Food and kindred products	11	175	60	23	2	4
26	Paper and allied products	7	150	11	136	47	66
28	Chemicals and allied products	12	210	24	97	30	36
	East South Central division	303	4,740	541	800	240	219
	Kentucky	73	1,585	131	140	26	22
20	Food and kindred products	11	250	50	10	2	2
28	Chemicals and allied products	8	206	20	72	14	3
33	Primary metal industries	8	133	10	37	3	13
34	Fabricated metal products	5	74	8	2	(Z)	(Z)
35	Machinery, except electrical	9	145	4	1	(Z)	(Z)
	Tennessee	102	1,499	185	305	86	58
20	Food and kindred products	9	123	48	10	1	2
22	Textile mill products	15	106	24	9	5	5
26	Paper and allied products	5	84	12	57	29	27
28	Chemicals and allied products	31	697	36	197	40	19
32	Stone, clay, and glass products	7	115	16	9	6	4
33	Primary metal industries	10	125	14	17	(Z)	(Z)
35	Machinery, except electrical	3	44	4	1	(Z)	(Z)
36	Electrical machinery	5	59	7	1	(Z)	(Z)
	Alabama	101	1,311	154	284	85	101
20	Food and kindred products	4	31	21	2	(Z)	1
22	Textile mill products	19	128	28	5	4	3
26	Paper and allied products	7	117	12	104	68	52
28	Chemicals and allied products	6	204	23	70	7	8
33	Primary metal industries	35	444	26	91	5	35
37	Transportation equipment	11	119	4	1	(Z)	(Z)
	Mississippi	27	345	71	71	43	38
20	Food and kindred products	4	34	26	2	(Z)	1
22	Textile mill products	3	23	3	1	(Z)	(Z)
28	Chemicals and allied products	2	68	10	19	2	1

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959—Continued

INDUSTRY GROUPS—Continued

1964--Continued						1959			Code
Water intake by purpose--Continued			Establishments recirculating or reusing water (number)	Gross water used, including recirculation or reuse (billion gallons)	Total water discharged (billion gallons)	Total water intake (billion gallons)	Gross water used, including recirculation or reuse (billion gallons)	Total water discharged (billion gallons)	
Cooling and condensing		Boiler feed, sanitary service, and other uses (billion gallons)							
Steam electric power generation (billion gallons)	Other (billion gallons)								
50	152	15	99	459	275	282	510	261	
(Z)	1	1	18	6	2	2	3	2	20
(Z)	(Z)	1	10	12	9	8	9	7	22
16	5	3	12	166	64	69	165	55	26
24	120	8	17	200	160	167	285	164	28
(Z)	2	(Z)	7	3	2	1	2	1	30
4	1	(Z)	7	5	5	2	6	1	32
-	1	(Z)	4	4	2	3	6	3	33
95	475	22	60	817	670	550	693	540	
26	430	8	27	559	468	401	479	393	28
13	46	13	153	350	146	97	321	93	
1	1	1	20	6	4	1	2	1	20
(Z)	(Z)	1	7	10	2	2	34	1	21
(Z)	2	4	83	48	25	22	36	20	22
12	3	3	7	169	65	57	201	56	26
(Z)	6	3	10	54	12	11	31	10	28
-	1	(Z)	8	4	2	(S)	(S)	(S)	36
11	42	7	109	332	101	89	143	84	
(Z)	(Z)	(Z)	8	1	1	(S)	(S)	(S)	20
1	3	4	63	83	26	30	39	26	22
4	19	1	9	99	33	(S)	(S)	(S)	28
-	(Z)	(Z)	5	1	1	(S)	(S)	(S)	35
42	51	12	138	655	213	183	659	168	
(Z)	6	1	30	15	9	7	12	6	20
2	1	3	51	30	16	15	27	13	22
39	20	5	16	525	154	123	547	121	26
1	22	1	14	55	27	25	41	23	28
(Z)	1	(Z)	9	10	3	6	6	1	32
(Z)	(Z)	(Z)	4	2	1	(S)	(S)	(S)	34
-	(Z)	(Z)	5	13	2	2	15	1	37
47	79	30	79	690	230	235	589	222	
1	16	2	37	37	21	30	48	29	20
41	23	7	11	411	131	142	417	139	26
1	39	21	18	208	75	54	108	45	28
89	435	58	376	1,877	711	637	1,378	594	
3	104	12	98	414	117	103	232	99	
(Z)	6	2	39	20	7	13	26	11	20
1	62	6	15	239	64	50	131	48	28
(Z)	23	1	8	80	27	18	30	17	33
(Z)	1	(Z)	3	2	2	1	1	1	34
-	(Z)	(Z)	4	4	1	2	5	2	35
30	191	26	125	649	287	237	r429	228	
(Z)	7	1	26	23	9	10	16	10	20
(Z)	4	1	17	15	9	3	4	3	22
15	10	5	12	134	49	59	160	56	26
15	148	15	27	368	190	150	213	145	28
-	5	(Z)	7	16	8	6	8	6	32
-	15	2	10	68	16	3	12	2	33
-	(Z)	(Z)	4	1	1	(S)	(S)	(S)	35
-	(Z)	(Z)	4	4	1	(S)	(S)	(S)	36
53	114	16	105	583	242	231	564	208	
(Z)	1	(Z)	14	3	2	2	2	1	20
(Z)	(Z)	1	20	10	4	4	5	3	22
34	15	2	11	194	112	102	238	99	26
3	56	4	15	77	65	40	56	35	28
16	34	7	22	250	47	72	244	59	33
-	(Z)	(Z)	3	2	1	1	1	1	37
3	26	4	48	231	65	66	153	59	
(Z)	1	1	15	4	2	1	1	1	20
-	(Z)	(Z)	2	13	1	1	1	1	22
(Z)	18	1	6	49	18	18	53	15	28

TABLE 2. Water Intake by Purpose, 1964, Gross Water

C. STATES AND MAJOR

Code	States and major industry groups	1964					
		Establishments reporting consumption of water			Water intake by purpose		
					All purposes		
		All employees (1,000)	Value added by manufacture, adjusted (million dollars)	Total (number)	Total (billion gallons)	Treated prior to use (billion gallons)	Process (billion gallons)
	West South Central division	314	6,106	661	2,517	541	514
	Arkansas	30	373	90	48	33	36
20	Food and kindred products	6	44	42	5	1	3
24	Lumber and wood products	3	16	8	1	(Z)	(Z)
28	Chemicals and allied products	3	75	8	5	1	1
36	Electrical machinery	3	30	4	1	(Z)	(Z)
	Louisiana	63	1,168	171	870	81	108
24	Lumber and wood products	2	9	10	2	(Z)	(Z)
26	Paper and allied products	10	156	13	61	35	55
28	Chemicals and allied products	13	353	42	347	30	20
29	Petroleum and coal products	10	256	16	250	12	26
32	Stone, clay, and glass products	3	43	10	3	(Z)	1
	Oklahoma	25	369	57	16	6	4
26	Paper and allied products	(Z)	7	3	2	(Z)	1
29	Petroleum and coal products	5	92	14	10	5	(Z)
32	Stone, clay, and glass products	2	32	7	1	(Z)	(Z)
33	Primary metal industries	2	30	5	1	(Z)	1
	Texas	196	4,196	343	1,583	421	366
20	Food and kindred products	21	352	87	12	2	5
26	Paper and allied products	3	48	6	29	9	17
28	Chemicals and allied products	34	1,449	90	1,095	268	301
29	Petroleum and coal products	32	910	47	264	69	10
37	Transportation equipment	39	546	15	14	1	2
	Mountain division	122	1,896	248	206	59	100
	Montana	6	89	30	31	7	9
20	Food and kindred products	1	14	9	5	2	3
24	Lumber and wood products	1	11	7	4	(Z)	1
	Idaho	12	197	49	54	21	28
20	Food and kindred products	5	65	35	17	5	9
28	Chemicals and allied products	3	74	5	10	2	2
	Wyoming	3	45	13	9	3	5
29	Petroleum and coal products	2	34	6	3	2	(Z)
	Colorado	44	708	72	60	14	33
20	Food and kindred products	9	147	43	29	3	8
29	Petroleum and coal products	1	14	6	2	1	1
	New Mexico	3	26	8	1	(Z)	(Z)
	Arizona	25	318	27	16	3	12
20	Food and kindred products	1	12	5	1	(Z)	(Z)
33	Primary metal industries	4	69	10	10	3	8
	Utah	27	463	39	31	9	11
20	Food and kindred products	2	37	19	3	2	1
29	Petroleum and coal products	1	21	3	2	1	(Z)
	Nevada	2	50	10	4	2	2
	Pacific division	666	9,554	910	1,011	267	510
	Washington	126	2,041	161	360	149	229
20	Food and kindred products	10	166	59	12	1	5
24	Lumber and wood products	10	88	24	33	2	8
26	Paper and allied products	14	275	28	242	140	204
29	Petroleum and coal products	1	55	4	3	2	(Z)
32	Stone, clay, and glass products	2	26	12	4	(Z)	3
33	Primary metal industries	8	183	13	26	(Z)	7
	Oregon	42	488	135	163	34	82
20	Food and kindred products	8	82	35	10	2	6
24	Lumber and wood products	19	183	60	58	2	21
26	Paper and allied products	4	84	16	74	26	53
33	Primary metal industries	2	39	6	12	3	2
	California	485	6,879	578	342	71	89
20	Food and kindred products	67	1,071	258	63	12	23
24	Lumber and wood products	11	97	29	26	1	17

See footnotes at end of table.

Used, and Water Discharged, 1964 and 1959—Continued

INDUSTRY GROUPS—Continued

1964--Continued						1959			Code
Water intake by purpose--Continued			Establishments recirculating or reusing water (number)	Gross water used, including recirculation or reuse (billion gallons)	Total water discharged (billion gallons)	Total water intake (billion gallons)	Gross water used, including recirculation or reuse (billion gallons)	Total water discharged (billion gallons)	
Cooling and condensing		Boiler feed, sanitary service, and other uses (billion gallons)							
Steam electric power generation (billion gallons)	Other (billion gallons)								
710	1,187	106	472	7,951	2,350	2,019	6,523	1,893	
1	6	5	65	451	42	37	364	33	
(Z)	1	1	28	5	4	1	2	1	20
(Z)	(Z)	(Z)	6	1	(Z)	1	2	1	24
1	2	1	6	73	3	4	12	2	28
(Z)	(Z)	(Z)	2	1	1	(S)	(S)	(S)	36
269	459	34	108	2,141	843	714	1,483	692	
(Z)	1	1	6	2	(Z)	(S)	(S)	(S)	24
1	1	3	11	144	55	55	187	52	26
91	226	10	33	1,182	340	263	480	256	28
21	196	7	13	580	242	216	621	208	29
-	1	1	4	8	2	(S)	(S)	(S)	32
(Z)	7	5	45	290	10	15	300	9	
-	(Z)	(Z)	3	28	2	(S)	(S)	(S)	26
(Z)	6	4	14	247	4	10	267	5	29
(Z)	(Z)	(Z)	5	1	1	(S)	(S)	(S)	32
(Z)	(Z)	(Z)	5	4	1	(S)	(S)	(S)	33
440	715	62	254	5,069	1,455	1,253	4,376	1,159	
1	4	2	47	36	7	5	29	4	20
10	2	(Z)	6	45	28	28	173	23	26
308	465	21	72	2,118	1,041	926	1,584	890	28
25	196	33	44	2,397	218	205	2,240	166	29
-	11	1	11	57	14	4	38	3	37
11	64	28	179	706	176	189	531	154	
2	17	2	24	60	26	43	82	37	
-	2	(Z)	7	6	5	4	5	4	20
2	(Z)	1	5	6	2	(S)	(S)	(S)	24
3	13	11	29	141	47	46	58	43	
(Z)	5	2	17	23	15	13	19	13	20
-	5	4	5	65	8	(S)	(S)	(S)	28
(Z)	2	1	9	60	7	6	41	4	
(Z)	1	1	6	54	2	4	36	2	29
2	16	8	52	122	54	46	96	40	
1	14	7	28	41	27	14	20	13	20
-	1	(Z)	6	3	1	1	15	(Z)	29
-	(Z)	(Z)	7	11	1	2	14	1	
1	1	2	22	125	10	12	105	5	
(Z)	(Z)	(Z)	4	2	1	1	2	(Z)	20
1	(Z)	1	9	102	5	10	97	3	33
3	13	4	28	176	27	29	122	22	
(Z)	2	1	11	5	3	5	8	4	20
-	2	1	3	19	2	(S)	(S)	(S)	29
-	2	(Z)	8	11	4	5	13	2	
94	303	103	657	2,879	941	814	2,353	746	
33	71	27	103	996	341	270	788	261	
(Z)	5	2	38	19	12	5	10	5	20
21	1	4	14	36	30	34	39	31	24
4	24	10	27	794	236	189	644	185	26
-	2	1	4	54	2	3	49	2	29
-	1	(Z)	2	4	3	2	2	2	32
(Z)	18	2	6	34	26	24	29	24	33
27	30	23	84	270	151	141	246	134	
(Z)	3	(Z)	15	11	9	6	9	6	20
26	3	8	37	78	50	64	80	61	24
(Z)	9	10	13	146	71	55	136	51	26
-	6	3	6	18	11	6	9	6	33
17	190	46	443	1,273	313	319	1,183	277	
4	24	10	184	104	55	49	94	42	20
4	1	4	22	34	24	15	26	11	24

TABLE 2. Water Intake by Purpose, 1964, Gross Water

C. STATES AND MAJOR

Code	States and major industry groups	1964					
		Establishments reporting consumption of water			Water intake by purpose		
		All employees	Value added by manufacture, adjusted	Total	All purposes		Process
					Total	Treated prior to use	
		(1,000)	(million dollars)	(number)	(billion gallons)	(billion gallons)	(billion gallons)
	Pacific division--Continued						
	California--Continued						
28	Chemicals and allied products/	10	324	54	36	11	6
29	Petroleum and coal products	15	412	19	139	15	2
30	Rubber and plastics products, n.e.c.	7	95	8	1	(Z)	(Z)
32	Stone, clay, and glass products	16	275	51	22	11	15
34	Fabricated metal products	10	121	22	1	(Z)	1
35	Machinery, except electrical	10	99	8	1	(Z)	(Z)
36	Electrical machinery	77	932	28	2	(Z)	1
37	Transportation equipment	126	1,717	29	7	3	2
	Alaska	2	29	6	34	10	31
	Hawaii	11	117	30	112	3	79

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries whether or not separate figures are shown for the individual industries.

- Represents zero.
(D) Withheld to avoid disclosing figures for individual companies.
r Revised
(S) Figures did not meet publication standards.
(Z) Less than 500 million gallons.
[1]Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 23 and 27. In 1959, such establishments had total water intake of 23 billion gallons, gross water use of 58 billion gallons, discharge of 22 billion gallons of water, and 152 thousand employees. Data for Major Group 19 is included in all total figures but was considered too insignificant to publish.

Used, and Water Discharged, 1964 and 1959—Continued

INDUSTRY GROUPS—Continued

1964--Continued						1959			Code
Water intake by purpose--Continued			Establishments recirculating or reusing water	Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	
Cooling and condensing		Boiler feed, sanitary service, and other uses							
Steam electric power generation (billion gallons)	Other (billion gallons)	(billion gallons)	(number)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	
(Z)	21	8	46	132	31	33	124	25	28
1	125	11	17	568	138	150	555	136	29
-	1	(Z)	7	12	.1	1	8	1	30
(Z)	4	2	37	32	17	21	37	18	32
(Z)	(Z)	(Z)	14	2	1	1	3	1	34
(Z)	(Z)	(Z)	5	4	1	1	2	(4)	35
(Z)	(Z)	1	20	11	2	1	1	1	36
(Z)	2	3	28	72	6	10	35	9	37
1	(Z)	2	4	95	34	84	136	74	
16	12	5	23	245	102				

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

A. INDUSTRY

(In billion gallons except

Code	Industry groups	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
	United States, total[1]	213,400	14,045	11,209	1,383	8,466	1,360	2,836	30,599
20	Food and kindred products	31,401	760	681	192	215	274	79	1,280
201	Meat products	9,325	105	105	53	3	49	(Z)	165
2011	Meat slaughtering plants	7,627	84	84	38	3	42	(Z)	138
2013	Meat processing plants	676	4	4	3	-	1	(Z)	8
2015	Poultry dressing plants	1,023	17	17	12	(Z)	5	(Z)	19
202	Dairies	3,902	62	62	22	6	34	(Z)	103
2021	Creamery butter	252	8	8	1	(Z)	6	-	10
2022	Natural and process cheese	395	3	3	1	(Z)	1	-	4
2023	Condensed and evaporated milk	625	18	18	2	4	12	-	31
2024	Ice cream and frozen desserts	275	4	3	2	-	2	(Z)	10
2026	Fluid milk	2,356	31	30	16	1	13	(Z)	49
203	Canned and frozen foods	4,219	92	88	35	5	47	5	152
2031	Canned and cured seafoods	169	2	1	1	(Z)	(Z)	1	2
2032	Canned specialties	907	13	13	8	2	3	(Z)	15
2033	Canned fruits and vegetables	1,711	35	33	15	(Z)	17	2	51
2034	Dehydrated foods products	177	4	4	1	-	3	(Z)	30
2035	Pickles, sauces, salad dressings	325	3	2	2	(Z)	1	1	5
2036	Fresh or frozen packaged fish	69	1	1	1	-	(Z)	(Z)	1
2037	Frozen fruits and vegetables	861	34	34	6	3	24	-	49
204	Grain mills	2,180	58	51	6	30	15	6	83
2041	Flour mills	503	2	1	1	-	1	(Z)	2
2042	Prepared animal feeds	269	3	3	1	-	2	(Z)	3
2043	Cereal preparations	552	5	5	1	1	3	(Z)	5
2046	Wet corn milling	601	48	42	3	30	10	6	72
205	Bakery products	943	4	4	3	-	1	(Z)	9
2051	Bread and related products	424	2	2	2	-	(Z)	(Z)	2
2052	Biscuits, crackers, and cookies	519	2	2	1	-	1	-	7
206	Sugar	1,989	242	194	15	127	51	48	412
2061	Raw cane sugar	294	123	104	10	59	36	19	252
2062	Cane sugar refining	1,145	65	39	4	34	1	26	74
2063	Beet sugar	550	54	51	2	34	15	3	86
207	Candy and related products	1,094	19	16	3	6	7	3	34
208	Beverages	4,109	108	105	40	26	39	4	172
2082	Malt liquors	2,155	59	56	29	14	13	3	94
2083	Malt	124	7	7	1	(Z)	6	-	18
2084	Wines and brandy	156	4	4	1	(Z)	4	-	6
2085	Distilled liquor, except brandy	821	30	30	3	12	16	-	45
2086	Bottled and canned soft drinks	465	6	6	5	(Z)	1	(Z)	8
2087	Flavorings	388	2	1	1	(Z)	(Z)	(Z)	2
209	Miscellaneous foods and kindred products	3,639	69	56	15	11	30	13	149
2091	Cottonseed oil mills	109	2	2	(Z)	(Z)	2	-	4
2092	Soybean oil mills	1,142	13	13	3	4	6	-	28
2094	Animal and marine fats and oils	124	9	9	1	3	4	1	11
2095	Roasted coffee	705	2	2	1	(Z)	1	-	6
2096	Shortening and cooking oils	985	17	14	4	3	7	3	50
2097	Manufactured ice	14	7	7	1	1	5	(Z)	25
2099	Food preparations, n.e.c	402	16	9	4	(Z)	5	7	19
21	Tobacco manufactures	2,508	3	3	3	-	(Z)	-	19
2111	Cigarettes	2,212	2	2	2	-	-	-	18
22	Textile mill products	6,845	148	146	46	84	16	1	311
2211	Weaving mills, cotton	1,956	27	27	8	17	3	(Z)	87
2221	Weaving mills, synthetics	914	10	10	6	2	1	(Z)	27
2231	Weaving, finishing mills, wool	591	19	19	4	13	1	-	20
225	Knitting mills	618	7	7	4	1	1	-	54
2251	Women's hosiery, except socks	170	1	1	1	(Z)	(Z)	-	4
2252	Hosiery, n.e.c	93	1	1	1	(Z)	(Z)	-	1
2253	Knit outerwear mills	114	1	1	1	(Z)	(Z)	-	1
2256	Knit fabric mills	190	3	3	2	1	1	-	47

See footnotes at end of table.

and Discharged Water by Discharge Point: 1964

GROUPS[1]

value)

Water treated and discharged												Code
Total discharged	Amount treated prior to discharge	Point of discharge									Transferred to other users	
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)				
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
13,157	3,825	987	31	271	11,759	390	6,179	195	(Z)	83	217	
688	158	241	15	36	353	10	104	79	(Z)	28	15	20
99	39	69	12	14	27	(Z)	12	2	-	1	(Z)	201
78	36	55	12	13	21	(Z)	12	1	-	1	(Z)	2011
4	(Z)	4	(Z)	(Z)	(Z)	-	-	(Z)	-	-	(Z)	2013
17	3	10	(Z)	1	5	(Z)	1	1	-	(Z)	(Z)	2015
58	9	37	(Z)	3	18	(Z)	3	3	-	(Z)	1	202
7	1	4	(Z)	1	3	-	1	(Z)	-	(Z)	(Z)	2021
2	(Z)	1	-	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	2022
17	3	7	(Z)	1	10	(Z)	2	(Z)	-	(Z)	(Z)	2023
3	(Z)	2	-	(Z)	1	-	(Z)	(Z)	-	-	(Z)	2024
29	6	23	(Z)	1	3	-	1	2	-	(Z)	1	2026
87	31	39	1	5	35	2	15	12	(Z)	5	1	203
2	(Z)	1	-	(Z)	1	-	(Z)	(Z)	-	-	-	2031
11	1	9	(Z)	(Z)	2	1	(Z)	1	-	(Z)	(Z)	2032
33	13	18	1	1	10	(Z)	2	4	-	1	1	2033
4	3	2	-	1	2	-	2	(Z)	-	-	-	2034
3	1	1	(Z)	(Z)	2	(Z)	1	(Z)	-	-	(Z)	2035
1	(Z)	(Z)	-	-	(Z)	-	-	(Z)	-	-	-	2036
33	12	7	(Z)	2	18	(Z)	10	7	(Z)	4	(Z)	2037
50	5	16	(Z)	3	33	(Z)	17	1	-	(Z)	-	204
1	(Z)	1	-	-	(Z)	(Z)	-	-	-	-	-	2041
2	(Z)	1	-	(Z)	1	-	1	(Z)	-	(Z)	-	2042
3	1	2	-	1	1	-	-	-	-	-	-	2043
42	4	12	(Z)	2	30	-	16	(Z)	-	(Z)	-	2046
4	(Z)	3	-	(Z)	(Z)	-	-	(Z)	-	-	(Z)	205
1	(Z)	1	-	-	(Z)	-	-	(Z)	-	-	(Z)	2051
2	(Z)	2	-	(Z)	-	-	-	(Z)	-	-	-	2052
220	55	3	-	1	151	7	34	55	-	21	11	206
113	19	1	-	(Z)	49	-	13	53	-	20	10	2061
59	2	1	-	(Z)	57	(Z)	10	1	-	1	(Z)	2062
49	34	1	-	1	46	7	12	1	-	(Z)	1	2063
18	(Z)	3	-	(Z)	14	(Z)	-	1	-	-	(Z)	207
93	7	49	1	5	40	-	10	3	-	1	1	208
51	5	32	1	4	18	-	5	(Z)	-	(Z)	(Z)	2082
7	1	4	(Z)	(Z)	3	-	1	(Z)	-	-	-	2083
4	(Z)	1	-	-	1	-	(Z)	2	-	(Z)	(Z)	2084
26	(Z)	8	(Z)	(Z)	18	-	4	(Z)	-	-	(Z)	2085
5	(Z)	4	-	(Z)	(Z)	-	-	(Z)	-	(Z)	(Z)	2086
1	(Z)	(Z)	-	(Z)	1	-	(Z)	-	-	-	-	2087
59	11	22	(Z)	4	34	1	13	2	-	(Z)	1	209
2	(Z)	(Z)	-	-	1	-	-	(Z)	-	-	(Z)	2091
11	2	3	(Z)	(Z)	8	1	(Z)	(Z)	-	-	(Z)	2092
8	2	2	-	(Z)	5	(Z)	1	1	-	-	(Z)	2094
2	-	1	-	-	1	-	-	(Z)	-	-	(Z)	2095
12	5	8	(Z)	3	4	-	2	-	-	-	(Z)	2096
6	(Z)	2	(Z)	-	3	-	-	1	-	-	(Z)	2097
15	1	5	-	1	10	-	9	(Z)	-	(Z)	(Z)	2099
2	(Z)	1	-	1	(Z)	-	(Z)	-	-	-	1	21
2	(Z)	1	-	1	(Z)	-	(Z)	-	-	-	1	2111
135	35	44	2	4	86	8	7	5	-	4	(Z)	22
23	6	7	1	(Z)	16	2	1	(Z)	-	(Z)	(Z)	2211
9	2	4	(Z)	1	5	1	(Z)	(Z)	-	(Z)	(Z)	2221
18	4	3	(Z)	(Z)	15	-	1	(Z)	-	-	-	2231
6	2	4	-	(Z)	2	(Z)	(Z)	(Z)	-	(Z)	(Z)	225
1	-	1	-	-	(Z)	-	-	-	-	-	-	2251
1	(Z)	1	-	-	(Z)	-	-	-	-	-	-	2252
1	(Z)	(Z)	-	(Z)	1	-	-	-	-	-	-	2253
3	1	2	-	(Z)	1	(Z)	(Z)	(Z)	-	(Z)	(Z)	2256

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

A. INDUSTRY

(In billion gallons except

Code	Industry groups	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
22	Textile mill products—Continued								
226	Textile finishing, except wool	1,003	59	58	14	41	3	1	67
2261	Finishing plants, cotton	678	37	37	5	31	2	-	44
2262	Finishing plants, synthetic	203	17	17	6	10	1	1	19
2269	Finishing plants, n.e.c	122	4	4	3	1	(Z)	-	4
227	Floor covering mills	592	7	7	3	3	1	-	23
2272	Tufted carpets and rugs	368	5	5	2	2	1	-	6
228	Yarn and thread mills	457	7	7	3	3	1	-	13
2281	Yarn mills, except wool	143	3	3	(Z)	2	(Z)	-	6
2283	Wool yarn mills	167	2	2	1	1	(Z)	-	3
2284	Thread mills	125	2	2	2	1	(Z)	-	3
229	Miscellaneous textile goods	665	12	12	3	4	5	(Z)	21
2295	Coated fabric, not rubberized	204	4	4	2	1	(Z)	(Z)	8
2297	Scouring and combing plants	73	1	1	(Z)	1	1	-	1
24	Lumber and wood products	1,175	151	126	6	99	21	24	217
242	Sawmills and planing mills	581	114	94	3	77	14	20	157
2421	Sawmills and planing mills	(D)	113	94	3	77	14	20	157
243	Millwork and related products	363	12	7	2	4	1	5	19
2431	Millwork plants	43	1	1	(Z)	-	(Z)	-	1
2432	Veneer and plywood plants	320	11	7	2	4	1	5	18
244	Wooden containers	19	1	1	(Z)	(Z)	(Z)	-	1
249	Miscellaneous wood products	199	9	9	1	3	6	-	24
2491	Wood preserving	22	1	1	(Z)	(Z)	(Z)	-	1
2499	Wood products, n.e.c	177	9	9	1	3	5	-	23
25	Furniture and fixtures	559	3	3	2	(Z)	1	-	4
251	Household furniture	323	1	1	1	(Z)	(Z)	-	2
2511	Wood furniture not upholstered	226	1	1	1	(Z)	(Z)	-	1
259	Furniture and fixtures, n.e.c	73	1	1	1	-	(Z)	-	1
26	Paper and allied products	7,868	2,071	1,918	230	1,323	365	152	6,026
2611	Pulp mills	519	279	263	64	109	90	16	892
2621	Paper mills, except building	3,575	1,138	1,096	107	846	142	42	3,095
3631	Paperboard mills	2,130	577	484	51	321	113	93	1,845
264	Paper and paperboard products	964	42	42	5	22	14	(Z)	107
2641	Paper coating and glazing	534	26	26	2	14	10	-	69
2646	Pressed and molded pulp goods	66	5	5	2	1	2	-	11
2649	Converted paper products, n.e.c	57	1	1	1	(Z)	(Z)	-	1
265	Paperboard containers and boxes	449	5	4	1	2	1	(Z)	11
2654	Sanitary food containers	325	1	1	(Z)	-	1	(Z)	5
2661	Building paper and board mills	231	31	29	2	22	5	1	76
28	Chemicals and allied products	21,366	3,888	2,548	273	1,952	324	1,340	7,577
281	Basic chemicals	9,011	3,020	1,800	199	1,440	161	1,220	5,828
2812	Alkalies and chlorine	635	528	299	53	220	27	229	628
2815	Intermediate coal tar products	971	108	74	13	46	15	34	277
2816	Inorganic pigments	424	91	43	10	29	4	49	112
2818	Organic chemicals, n.e.c	4,196	1,708	845	63	742	41	863	3,319
2819	Inorganic chemicals, n.e.c	2,629	499	455	38	349	69	44	1,312
282	Fibers, plastics, rubbers	4,961	529	499	41	407	51	30	1,093
2821	Plastics materials and resins	2,167	218	190	18	150	23	28	470
2822	Synthetic rubber	764	61	58	6	45	8	3	182
2823	Cellulosic man-made fibers	657	152	152	2	142	9	(Z)	233
2824	Organic fibers, noncellulosic	1,374	98	98	15	71	12	-	208
283	Drugs	2,818	65	44	11	17	16	22	121
2831	Biological products	29	1	1	(Z)	-	(Z)	-	2

See footnotes at end of table.

and Discharged Water by Discharge Point: 1964—Continued

GROUPS—Continued

value)

Water treated and discharged												Code
Total discharged	Amount treated prior to discharge	Point of discharge									Transferred to other users	
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)				
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
54	13	18	(Z)	1	35	4	1	1	-	(Z)	(Z)	226
34	8	9	(Z)	(Z)	24	3	1	1	-	(Z)	(Z)	2261
16	4	6	-	(Z)	10	1	-	(Z)	-	-	(Z)	2262
4	(Z)	3	-	(Z)	1	(Z)	(Z)	(Z)	-	(Z)	(Z)	2269
7	2	4	-	(Z)	3	1	1	1	-	-	-	227
5	2	2	-	(Z)	2	1	1	1	-	-	-	2272
6	2	2	(Z)	1	4	(Z)	1	(Z)	-	-	-	228
2	(Z)	(Z)	(Z)	-	2	(Z)	-	(Z)	-	-	-	2281
2	1	(Z)	-	(Z)	1	-	1	-	-	-	-	2283
2	1	1	(Z)	1	1	-	-	(Z)	-	-	-	2284
12	4	3	-	(Z)	6	(Z)	3	3	-	3	(Z)	229
4	1	1	-	(Z)	2	-	1	-	-	-	(Z)	2295
1	1	(Z)	-	(Z)	1	-	(Z)	(Z)	-	(Z)	-	2297
123	34	4	(Z)	1	115	2	39	3	-	(Z)	1	24
93	30	2	(Z)	1	87	2	34	2	-	(Z)	1	242
93	30	2	(Z)	1	87	2	34	2	-	(Z)	1	2421
10	(Z)	2	(Z)	1	8	(Z)	2	(Z)	-	(Z)	(Z)	243
(Z)	-	(Z)	-	-	(Z)	-	-	(Z)	-	-	-	2431
10	(Z)	1	(Z)	1	8	(Z)	2	(Z)	-	(Z)	(Z)	2432
(Z)	-	(Z)	-	-	(Z)	-	-	(Z)	-	-	-	244
6	3	(Z)	-	(Z)	6	-	4	(Z)	-	(Z)	(Z)	249
(Z)	(Z)	(Z)	-	-	(Z)	-	(Z)	(Z)	-	-	(Z)	2491
6	3	(Z)	-	(Z)	5	-	4	(Z)	-	(Z)	-	2499
3	(Z)	2	-	(Z)	1	(Z)	(Z)	(Z)	-	(Z)	-	25
1	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	-	251
1	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	-	2511
1	(Z)	1	-	(Z)	-	-	-	(Z)	-	(Z)	-	259
1,947	707	81	4	15	1,823	45	937	11	-	5	33	26
271	74	7	-	1	264	1	102	(Z)	-	(Z)	3	2611
1,067	374	43	2	10	1,003	32	566	2	-	1	18	2621
543	242	24	2	4	501	9	247	8	-	4	10	2631
38	9	4	(Z)	(Z)	33	1	10	(Z)	-	(Z)	1	264
23	7	1	-	(Z)	22	1	8	(Z)	-	(Z)	(Z)	2641
5	1	2	-	-	3	(Z)	-	-	-	-	1	2646
1	(Z)	1	(Z)	-	(Z)	-	-	-	-	-	-	2649
3	2	1	-	(Z)	2	-	1	(Z)	-	(Z)	-	265
1	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	-	2654
25	5	2	(Z)	(Z)	23	1	12	(Z)	-	-	(Z)	2661
3,662	580	153	7	48	3,384	15	1,517	38	-	21	87	28
2,887	421	103	4	36	2,679	11	1,100	22	-	9	83	281
509	129	21	-	19	484	-	198	2	-	-	2	2812
100	48	11	1	1	89	(Z)	66	(Z)	-	(Z)	(Z)	2815
87	26	3	-	2	85	(Z)	40	(Z)	-	(Z)	-	2816
1,660	114	34	4	5	1,547	6	597	7	-	1	72	2818
447	103	13	(Z)	9	417	3	198	10	-	8	7	2819
509	119	24	1	5	473	3	288	9	-	7	3	282
206	41	20	1	4	183	2	82	2	-	2	2	2821
57	40	3	-	(Z)	53	1	21	(Z)	-	(Z)	1	2822
150	22	1	-	1	147	-	123	2	-	(Z)	-	2823
96	17	(Z)	(Z)	(Z)	90	1	63	5	-	5	-	2824
42	6	10	1	3	29	(Z)	18	3	-	3	(Z)	283
(Z)	(Z)	(Z)	-	-	(Z)	-	-	-	-	-	-	2831

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

A. INDUSTRY

(In billion gallons except

Code	Water use region, Industry groups	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
28	Chemicals and allied products—Continued								
284	Cleaning and toilet goods	2,274	32	16	7	3	7	16	45
2841	Soap and other detergents	1,360	19	12	5	2	5	7	31
2851	Paints and allied products	(D)	5	5	4	1	1	(Z)	8
2861	Gum and wood chemicals	(D)	26	23	(Z)	8	15	3	117
287	Agricultural chemicals	583	115	69	2	25	42	46	226
2871	Fertilizers	455	113	67	2	25	41	45	217
2879	Agricultural chemicals, n.e.c	97	2	1	1	(Z)	1	1	8
289	Miscellaneous chemical products	960	94	91	10	51	30	3	138
2891	Glue and gelatin	102	12	11	1	6	4	(Z)	16
2892	Explosives	223	28	28	1	23	4	-	35
2899	Chemical preparations, n.e.c	487	36	33	6	18	8	3	64
29	Petroleum and coal products	16,098	1,398	710	130	483	97	688	6,161
2911	Petroleum refining	15,765	1,388	700	128	478	95	687	6,146
295	Paving and roofing materials	257	10	9	2	5	2	(Z)	14
2951	Paving mixtures and blocks	12	1	1	(Z)	(Z)	(Z)	-	1
2952	Asphalt felts and coatings	245	9	9	2	5	2	(Z)	13
30	Rubber and plastics products, n.e.c	5,318	163	162	29	98	35	1	336
3011	Tires and inner tubes	2,809	60	60	11	36	13	-	173
3021	Rubber footwear	226	3	3	(Z)	2	(Z)	-	4
3031	Reclaimed rubber	33	2	2	(Z)	1	1	-	2
3069	Rubber products, n.e.c	1,583	70	69	11	53	5	1	105
3079	Plastics products, n.e.c	664	28	28	6	6	16	(Z)	52
31	Leather and leather products	517	16	16	6	5	5	(Z)	18
3111	Leather tanning and finishing	417	16	15	6	5	5	(Z)	18
32	Stone, clay, and glass products	5,086	249	209	32	135	43	39	389
3211	Flat glass	481	38	38	4	33	1	-	72
322	Pressed and blown glassware	1,234	16	16	9	1	6	(Z)	47
3221	Glass containers	757	7	7	3	1	3	(Z)	15
3229	Pressed and blown glass, n.e.c	476	9	9	6	(Z)	3	-	32
3231	Products of purchased glass	254	5	5	2	2	1	(Z)	9
3241	Cement, hydraulic	991	114	99	3	81	14	15	151
325	Structural clay products	54	1	1	1	(Z)	(Z)	-	1
3255	Clay refractories	15	1	1	(Z)	-	(Z)	-	1
326	Pottery and related products	211	2	2	2	(Z)	(Z)	1	6
3261	Vitreous plumbing fixtures	73	1	1	(Z)	(Z)	(Z)	1	4
3264	Porcelain electrical supplies	84	1	1	1	-	(Z)	-	1
327	Concrete and plaster products	475	17	16	2	5	9	1	25
3273	Ready mixed concrete	94	6	6	(Z)	4	2	(Z)	8
3274	Lime	86	7	7	(Z)	1	6	1	12
3275	Gypsum products	238	3	3	1	1	1	(Z)	3
3281	Cut stone and stone products	57	4	4	1	3	(Z)	-	5
329	Nonmetallic mineral products	1,329	51	28	8	10	10	22	72
3291	Abrasive products	467	4	4	2	1	2	-	6
3292	Asbestos products	348	8	7	2	4	1	(Z)	15
3293	Gaskets and insulations	103	2	2	(Z)	1	(Z)	-	3
3295	Minerals, ground or treated	80	25	6	(Z)	3	2	19	29
3297	Nonclay refractories	62	4	1	1	(Z)	(Z)	3	5
33	Primary metal industries	27,058	4,578	4,150	165	3,880	105	428	6,778
331	Steel rolling and finishing	17,137	4,051	3,766	94	3,617	55	285	5,806
3312	Blast furnaces and steel mills	15,672	3,815	3,530	81	3,400	49	285	5,510
3317	Steel pipe and tube	450	12	12	7	4	2	-	18

See footnotes at end of table.

and Discharged Water by Discharge Point: 1964—Continued

GROUPS—Continued

value)

Water treated and discharged												Code
Total discharged	Amount treated prior to discharge	Point of discharge									Transferred to other users	
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)				
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
23	2	5	(Z)	1	17	(Z)	10	(Z)	-	(Z)	(Z)	284
12	2	3	(Z)	1	9	(Z)	5	(Z)	-	(Z)	(Z)	2841
5	1	3	(Z)	1	2	-	1	(Z)	-	-	(Z)	2851
24	4	1	-	(Z)	22	1	7	1	-	(Z)	1	2861
90	17	1	(Z)	(Z)	88	(Z)	53	1	-	1	(Z)	287
89	16	(Z)	(Z)	(Z)	87	-	52	1	-	1	(Z)	2871
1	(Z)	(Z)	-	(Z)	1	(Z)	1	-	-	-	(Z)	2879
81	10	6	1	3	73	(Z)	40	1	-	(Z)	(Z)	289
11	4	3	(Z)	2	8	-	6	(Z)	-	-	(Z)	2891
27	2	(Z)	-	(Z)	26	-	24	1	-	(Z)	(Z)	2892
33	4	3	(Z)	1	30	(Z)	7	(Z)	-	(Z)	(Z)	2899
1,317	1,006	31	2	22	1,240	245	267	5	-	2	42	29
1,309	1,004	27	2	21	1,235	245	263	4	-	2	42	2911
9	1	3	-	1	5	-	4	(Z)	-	(Z)	(Z)	295
1	-	(Z)	-	-	(Z)	-	-	(Z)	-	-	(Z)	2951
8	1	3	-	1	5	-	4	(Z)	-	(Z)	-	2952
155	9	24	(Z)	8	128	(Z)	29	2	-	(Z)	1	30
56	4	8	(Z)	3	47	-	23	1	-	(Z)	(Z)	3011
3	(Z)	(Z)	(Z)	(Z)	2	-	1	(Z)	-	(Z)	-	3021
2	(Z)	(Z)	-	(Z)	2	-	1	(Z)	-	-	(Z)	3031
67	1	9	-	2	58	(Z)	2	(Z)	-	(Z)	(Z)	3069
27	3	7	-	3	19	-	2	1	-	(Z)	(Z)	3079
15	7	7	-	(Z)	7	1	1	(Z)	-	(Z)	(Z)	31
14	7	7	-	(Z)	7	1	1	(Z)	-	(Z)	(Z)	3111
218	41	19	(Z)	4	177	7	51	18	-	11	4	32
37	8	1	-	(Z)	36	2	27	-	-	-	-	3211
16	4	6	(Z)	2	8	1	1	(Z)	-	(Z)	1	322
7	1	3	(Z)	(Z)	3	1	1	(Z)	-	-	(Z)	3221
9	3	3	(Z)	1	5	-	1	(Z)	-	(Z)	1	3229
5	(Z)	1	-	(Z)	4	-	1	(Z)	-	-	-	3231
95	2	1	(Z)	(Z)	90	-	15	1	-	(Z)	3	3241
1	(Z)	(Z)	-	(Z)	1	(Z)	(Z)	(Z)	-	-	(Z)	325
1	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	-	-	-	-	3255
2	(Z)	1	(Z)	(Z)	1	(Z)	(Z)	(Z)	-	-	(Z)	326
1	(Z)	1	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	-	-	-	3261
(Z)	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	-	-	-	-	3264
13	4	1	(Z)	(Z)	10	(Z)	1	2	-	(Z)	(Z)	327
6	1	(Z)	-	(Z)	4	(Z)	(Z)	2	-	-	(Z)	3273
5	3	(Z)	-	-	5	(Z)	(Z)	(Z)	-	(Z)	(Z)	3274
2	(Z)	(Z)	(Z)	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	3275
4	1	1	-	(Z)	4	1	(Z)	(Z)	-	-	(Z)	3281
46	20	8	(Z)	1	24	3	5	14	-	11	(Z)	329
4	(Z)	3	(Z)	(Z)	1	-	-	-	-	-	-	3291
7	3	1	(Z)	(Z)	5	(Z)	2	1	-	(Z)	-	3292
2	(Z)	(Z)	(Z)	(Z)	1	-	1	1	-	-	-	3293
24	13	(Z)	(Z)	-	12	-	1	12	-	10	-	3295
4	3	(Z)	-	-	3	3	-	-	-	-	(Z)	3297
4,312	1,178	157	1	73	4,104	39	3,063	20	-	7	31	33
3,810	1,103	102	(Z)	65	3,688	35	3,019	17	-	6	4	331
3,576	1,041	88	(Z)	64	3,469	29	2,883	15	-	6	4	3312
11	1	7	-	(Z)	4	-	1	(Z)	-	(Z)	(Z)	3317

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

A. INDUSTRY

(In billion gallons except

Code	Industry groups	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
33	Primary metal industries—Continued								
332	Iron and steel foundries	1,503	28	28	13	11	4	(Z)	45
3321	Gray iron foundries	946	20	20	8	10	2	-	30
3322	Malleable iron foundries	90	2	2	1	-	1	-	4
3323	Steel foundries	467	6	6	3	2	1	(Z)	10
333	Primary nonferrous metal	2,658	386	259	11	220	27	127	704
3331	Primary copper	956	32	19	5	8	6	13	161
3332	Primary lead	236	5	4	1	1	3	1	11
3333	Primary zinc	269	35	34	4	26	5	(Z)	44
3334	Primary aluminum	1,021	197	197	1	183	13	(Z)	335
3341	Secondary nonferrous metals	230	2	2	1	1	(Z)	(Z)	4
335	Nonferrous rolling and drawing	4,535	83	80	34	29	16	4	167
3351	Copper rolling and drawing	1,450	36	36	13	17	5	1	59
3352	Aluminum rolling and drawing	1,359	24	22	5	10	7	2	64
3356	Rolling and drawing, n.e.c	386	13	13	10	1	2	(Z)	20
3357	Nonferrous wire drawing, etc	1,340	10	10	6	1	2	1	24
336	Nonferrous foundries	348	8	8	6	1	1	-	19
3361	Aluminum castings	230	4	4	3	1	(Z)	-	9
3362	Brass, bronze, copper castings	57	2	2	2	-	(Z)	-	2
3369	Nonferrous castings, n.e.c	61	1	1	1	-	(Z)	-	9
339	Primary metal industries, n.e.c	648	20	7	5	1	2	13	34
3391	Iron and steel forgings	489	5	4	3	-	1	(Z)	13
34	Fabricated metal products	5,922	57	56	37	8	11	2	123
3411	Metal cans	584	1	1	1	-	(Z)	-	3
342	Cutlery, hand tools, hardware	1,338	14	12	10	(Z)	2	2	28
3421	Cutlery	168	2	1	1	-	(Z)	1	4
3423	Hand and edge tools	130	1	1	1	(Z)	(Z)	-	2
3429	Hardware, n.e.c	1,001	10	10	8	(Z)	1	(Z)	21
343	Plumbing and heating, except electric	466	4	4	3	(Z)	1	-	7
3431	Metal plumbing fixtures	138	2	2	1	(Z)	(Z)	-	4
3432	Plumbing fittings, brass goods	132	1	1	1	-	(Z)	-	1
3433	Heating equipment, except electric	197	1	1	1	(Z)	(Z)	-	2
344	Structural metal products	1,035	14	14	5	7	2	-	36
3441	Fabricated structural steel	160	1	1	(Z)	-	1	-	1
3442	Metal doors, sash, and trim	132	2	2	1	-	1	-	3
3443	Boiler shop products	513	10	10	3	7	(Z)	-	30
3444	Sheet metal work	166	1	1	1	-	1	-	1
345	Screw machine products, bolts, etc	508	5	5	4	(Z)	1	-	7
3452	Bolts, nuts, rivets, and washers	(D)	5	5	4	(Z)	1	-	7
3461	Metal stampings	833	7	7	6	(Z)	1	(Z)	28
347	Metal services, n.e.c	90	5	5	4	(Z)	1	-	6
3471	Plating and polishing	67	5	5	3	(Z)	1	-	5
3481	Fabricated wire products, n.e.c	152	2	2	1	(Z)	1	-	2
349	Fabricated metal products, n.e.c	914	6	6	4	(Z)	2	-	8
3494	Valves and pipe fittings	506	3	3	2	(Z)	(Z)	-	3
35	Machinery, except electrical	11,834	157	129	43	72	15	27	287
351	Engines and turbines	1,731	56	33	5	27	1	23	69
3522	Farm machinery and equipment	1,498	38	36	7	27	2	2	45
353	Construction and like equipment	2,293	12	12	7	3	2	-	62
3531	Construction machinery	1,597	7	7	3	3	1	-	32
3533	Oil field machinery	181	1	1	(Z)	-	1	-	25
354	Metalworking machinery	980	6	5	4	1	1	1	8
3541	Metal-cutting machine tools	396	2	2	1	(Z)	(Z)	-	2
3544	Special dies and tools	79	1	1	1	(Z)	(Z)	-	1
3545	Machine tool accessories	185	2	1	1	(Z)	(Z)	1	3
3548	Metalworking machinery, n.e.c	242	1	1	1	(Z)	(Z)	(Z)	2

See footnotes at end of table.

and Discharged Water by Discharge Point: 1964—Continued

GROUPS—Continued

value)

Water treated and discharged												
Total discharged	Amount treated prior to discharge	Point of discharge										Code
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)			Transferred to other users	
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
25	4	14	(Z)	1	11	3	1	(Z)	-	(Z)	(Z)	332
18	3	10	(Z)	1	8	3	1	(Z)	-	(Z)	(Z)	3321
2	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	-	-	3322
6	1	3	-	(Z)	3	(Z)	(Z)	(Z)	-	(Z)	(Z)	3323
370	51	5	(Z)	(Z)	339	(Z)	28	2	-	(Z)	25	333
26	8	1	(Z)	(Z)	18	-	5	1	-	-	6	3331
4	(Z)	(Z)	-	(Z)	2	-	1	(Z)	-	(Z)	1	3332
33	28	3	(Z)	(Z)	30	-	3	(Z)	-	(Z)	(Z)	3333
191	14	1	(Z)	-	190	-	15	1	-	(Z)	(Z)	3334
2	(Z)	1	-	(Z)	1	-	(Z)	(Z)	-	-	-	3341
79	17	26	-	5	49	(Z)	14	1	-	(Z)	2	335
34	7	10	-	2	22	(Z)	5	1	-	(Z)	1	3351
23	10	3	-	1	19	(Z)	7	1	-	(Z)	-	3352
12	1	8	-	1	3	-	1	(Z)	-	-	1	3356
9	(Z)	4	-	1	5	-	1	(Z)	-	(Z)	(Z)	3357
8	1	5	(Z)	1	2	(Z)	(Z)	(Z)	-	(Z)	(Z)	336
4	1	3	(Z)	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	3361
2	(Z)	2	-	-	(Z)	-	-	(Z)	-	-	-	3362
1	(Z)	1	-	1	(Z)	(Z)	(Z)	(Z)	-	(Z)	(Z)	3369
18	(Z)	4	-	1	14	(Z)	1	(Z)	-	-	(Z)	339
4	(Z)	3	-	1	1	(Z)	(Z)	(Z)	-	-	(Z)	3391
53	9	32	-	5	19	1	10	1	-	(Z)	(Z)	34
1	(Z)	1	-	-	(Z)	-	-	(Z)	-	-	(Z)	3411
13	2	8	-	1	5	(Z)	2	(Z)	-	(Z)	(Z)	342
2	(Z)	1	-	-	1	(Z)	-	-	-	-	-	3421
1	(Z)	1	-	(Z)	(Z)	-	-	(Z)	-	-	-	3423
9	2	7	-	1	2	-	2	(Z)	-	(Z)	(Z)	3429
4	(Z)	3	-	1	1	-	(Z)	(Z)	-	-	(Z)	343
1	(Z)	1	-	(Z)	1	-	(Z)	(Z)	-	-	-	3431
1	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	3432
1	(Z)	1	-	1	(Z)	-	-	(Z)	-	-	-	3433
12	5	4	-	1	8	(Z)	6	(Z)	-	(Z)	(Z)	344
1	(Z)	1	-	(Z)	(Z)	-	-	-	-	-	-	3441
2	(Z)	1	-	(Z)	1	-	(Z)	(Z)	-	-	-	3442
8	4	2	-	(Z)	6	(Z)	5	(Z)	-	(Z)	(Z)	3443
1	(Z)	(Z)	-	(Z)	1	(Z)	(Z)	(Z)	-	-	(Z)	3444
5	(Z)	4	-	1	1	(Z)	1	(Z)	-	(Z)	(Z)	345
4	(Z)	3	-	1	1	-	1	(Z)	-	(Z)	(Z)	3452
7	1	5	-	1	2	(Z)	1	(Z)	-	(Z)	(Z)	3461
5	1	4	-	(Z)	1	(Z)	(Z)	(Z)	-	(Z)	(Z)	347
5	1	3	-	(Z)	1	(Z)	(Z)	(Z)	-	(Z)	(Z)	3471
1	(Z)	1	-	(Z)	(Z)	(Z)	(Z)	(Z)	-	(Z)	(Z)	3481
5	1	4	-	1	1	(Z)	(Z)	(Z)	-	(Z)	(Z)	349
3	(Z)	2	-	1	1	(Z)	-	(Z)	-	(Z)	(Z)	3494
149	12	40	(Z)	7	106	5	55	2	-	(Z)	1	35
55	3	6	-	1	49	(Z)	26	(Z)	-	(Z)	(Z)	351
36	6	4	-	1	31	4	17	(Z)	-	(Z)	(Z)	3522
11	(Z)	7	-	1	4	-	3	(Z)	-	(Z)	(Z)	353
7	(Z)	4	-	1	3	-	3	(Z)	-	(Z)	(Z)	3531
1	(Z)	(Z)	-	(Z)	1	-	-	(Z)	-	-	-	3533
5	(Z)	3	-	(Z)	1	(Z)	(Z)	1	-	(Z)	(Z)	354
2	(Z)	1	-	(Z)	(Z)	(Z)	(Z)	(Z)	-	-	(Z)	3541
1	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	-	-	(Z)	3544
1	(Z)	1	-	-	(Z)	(Z)	-	1	-	(Z)	-	3545
1	(Z)	1	-	(Z)	1	-	(Z)	(Z)	-	-	-	3548

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

A. INDUSTRY

(In billion gallons except

Code	Industry groups	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
35	Machinery, except electrical—Continued								
355	Special industry machinery	658	6	4	3	1	(Z)	2	9
3559	Special industry machines, n.e.c.	182	3	1	1	(Z)	(Z)	2	6
356	General industrial machinery	1,757	17	17	8	6	3	-	39
3561	Pumps and compressors	506	9	9	2	6	(Z)	-	10
3562	Ball and roller bearings	699	3	3	2	(Z)	2	-	21
3566	Power transmission equipment	280	3	3	2	-	1	-	4
3569	General industry machines, n.e.c.	174	2	2	2	-	(Z)	-	3
357	Office machines, n.e.c.	1,570	14	14	4	7	4	-	38
3572	Typewriters	274	1	1	1	-	(Z)	-	3
358	Service industry machines	1,120	6	6	5	-	1	(Z)	15
3585	Refrigeration machinery	950	5	5	5	-	1	(Z)	14
3599	Miscellaneous machinery	228	2	2	1	-	1	-	3
36	Electrical machinery	16,541	105	104	63	22	19	1	266
361	Electric distribution products	1,273	11	11	6	4	1	(Z)	22
3611	Electric measuring instruments	268	2	2	1	(Z)	1	-	3
3612	Transformers	491	4	4	3	1	(Z)	-	11
3613	Switchgear and switchboards	514	5	5	2	3	(Z)	(Z)	8
362	Electric industrial apparatus	1,487	21	21	9	9	3	(Z)	33
3621	Motors and generators	1,067	16	16	6	8	3	-	27
3624	Carbon and graphite products	142	3	3	2	(Z)	(Z)	(Z)	3
363	Household appliances	2,847	21	21	14	(Z)	6	(Z)	30
3631	Household cooking equipment	138	1	1	(Z)	-	(Z)	-	1
3632	Household refrigerators	1,234	12	12	6	-	5	-	17
3633	Household laundry equipment	703	2	2	2	(Z)	(Z)	-	5
3634	Electric housewares and fans	420	4	4	4	-	(Z)	(Z)	5
364	Lighting and wiring devices	986	7	7	6	(Z)	1	(Z)	9
3643	Current carrying devices	278	2	2	2	(Z)	-	(Z)	2
3644	Noncurrent carrying devices	219	2	2	1	-	1	-	2
365	Radio and TV receiving equipment	876	4	4	3	-	1	-	7
3651	Radio and TV receiving sets	(D)	3	3	2	-	(Z)	-	4
366	Communication equipment	6,086	19	19	10	6	3	-	81
367	Electronic components	1,958	14	14	10	2	3	-	61
3671	Electron tubes, receiving type	205	1	1	1	-	(Z)	-	6
3672	Cathode ray picture tubes	158	1	1	1	(Z)	1	-	2
3673	Electron tubes, transmitting	284	3	3	2	(Z)	(Z)	-	6
3674	Semiconductors	470	4	4	3	(Z)	(Z)	-	37
3679	Electronic components, n.e.c.	841	5	5	3	1	1	-	10
369	Electrical products, n.e.c.	1,028	8	8	6	1	1	-	22
3694	Engine electrical equipment	697	4	4	2	1	1	-	9
37	Transportation equipment	45,845	247	193	103	72	19	54	663
371	Motor vehicles and equipment	32,316	127	125	64	52	9	1	422
3717	Motor vehicles and parts	31,988	125	124	63	52	9	1	395
372	Aircraft and parts	11,116	96	54	30	16	9	41	204
3721	Aircraft	6,065	25	24	10	10	4	(Z)	69
3722	Aircraft engines and parts	3,060	60	19	13	1	4	41	108
373	Ship and boat building	1,213	16	6	5	1	(Z)	10	19
3731	Ship building and repairing	1,213	16	6	5	1	(Z)	10	19
374	Railroad equipment	1,072	7	6	3	3	(Z)	1	17
3741	Locomotives and parts	422	2	2	2	-	-	(Z)	10
3742	Railroad and street cars	650	6	5	2	3	(Z)	1	7
3751	Motorcycles, bicycles, and parts	127	1	1	1	-	(Z)	-	2

See footnotes at end of table.

and Discharged, Water by Discharge Point: 1964—Continued

GROUPS—Continued

value)

Water treated and discharged												Code
Total discharged	Amount treated prior to discharge	Point of discharge									Transferred to other users	
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)				
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
3	1	2	(Z)	(Z)	1	(Z)	(Z)	(Z)	-	(Z)	-	355
1	(Z)	1	-	-	(Z)	(Z)	-	(Z)	-	-	-	3559
17	1	7	(Z)	2	9	-	1	(Z)	-	(Z)	(Z)	356
8	(Z)	2	-	(Z)	7	-	(Z)	(Z)	-	(Z)	(Z)	3561
3	1	2	-	1	1	-	(Z)	(Z)	-	(Z)	-	3562
3	(Z)	1	-	(Z)	1	-	(Z)	(Z)	-	-	(Z)	3566
2	(Z)	2	-	1	-	-	-	(Z)	-	(Z)	(Z)	3569
14	1	5	-	(Z)	8	(Z)	8	1	-	(Z)	(Z)	357
1	(Z)	1	-	(Z)	(Z)	-	-	-	-	-	-	3572
6	(Z)	4	(Z)	1	2	(Z)	1	(Z)	-	(Z)	-	358
5	(Z)	3	(Z)	1	1	(Z)	1	(Z)	-	(Z)	-	3585
2	(Z)	1	-	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	3599
91	15	49	(Z)	16	38	4	7	3	-	1	(Z)	36
10	1	3	-	1	7	(Z)	1	(Z)	-	(Z)	-	361
2	(Z)	(Z)	-	(Z)	1	-	1	(Z)	-	(Z)	-	3611
4	(Z)	1	-	(Z)	2	-	(Z)	(Z)	-	-	-	3612
5	1	1	-	1	4	(Z)	(Z)	(Z)	-	(Z)	-	3613
20	4	7	(Z)	1	13	3	1	(Z)	-	-	(Z)	362
16	3	5	-	(Z)	11	3	(Z)	(Z)	-	-	(Z)	3621
2	1	1	-	(Z)	1	-	(Z)	(Z)	-	-	-	3624
14	2	10	(Z)	3	3	(Z)	1	(Z)	-	(Z)	(Z)	363
1	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	-	3631
5	1	4	-	2	1	-	(Z)	-	-	-	-	3632
2	1	1	(Z)	1	1	-	(Z)	-	-	-	-	3633
4	(Z)	3	-	(Z)	1	(Z)	(Z)	(Z)	-	-	(Z)	3634
7	(Z)	4	-	2	2	-	1	1	-	-	(Z)	364
2	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	3643
2	(Z)	1	-	(Z)	1	-	(Z)	(Z)	-	-	(Z)	3644
3	1	3	(Z)	1	(Z)	-	(Z)	(Z)	-	-	-	365
2	(Z)	2	-	1	(Z)	-	(Z)	-	-	-	-	3651
18	2	9	-	4	7	(Z)	(Z)	2	-	1	(Z)	366
12	4	7	(Z)	4	5	1	2	(Z)	-	(Z)	(Z)	367
1	-	1	-	-	(Z)	-	-	(Z)	-	-	(Z)	3671
1	(Z)	1	-	(Z)	1	-	(Z)	-	-	-	-	3672
2	1	1	-	(Z)	1	1	(Z)	(Z)	-	-	-	3673
3	1	2	-	2	1	-	1	(Z)	-	-	(Z)	3674
5	1	3	(Z)	1	2	(Z)	1	(Z)	-	(Z)	(Z)	3679
6	1	5	(Z)	2	1	(Z)	(Z)	(Z)	-	(Z)	-	369
3	(Z)	2	-	1	1	-	(Z)	(Z)	-	-	-	3694
237	24	79	(Z)	25	152	2	78	5	-	3	(Z)	37
121	16	55	(Z)	16	65	2	54	(Z)	-	(Z)	(Z)	371
120	16	54	(Z)	15	65	2	54	(Z)	-	(Z)	(Z)	3717
92	7	17	(Z)	8	71	(Z)	21	4	-	3	(Z)	372
23	2	5	-	2	15	(Z)	12	3	-	3	(Z)	3721
59	4	8	(Z)	5	49	-	3	1	-	(Z)	(Z)	3722
15	(Z)	2	-	(Z)	13	-	1	(Z)	-	(Z)	(Z)	373
15	(Z)	2	-	(Z)	13	-	1	(Z)	-	(Z)	(Z)	3731
7	1	4	-	1	3	-	2	(Z)	-	-	-	374
1	(Z)	(Z)	-	(Z)	1	-	1	-	-	-	-	3741
6	(Z)	4	-	(Z)	2	-	1	(Z)	-	-	-	3742
1	(Z)	1	-	1	(Z)	-	(Z)	(Z)	-	-	-	3751

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

A. INDUSTRY

(In billion gallons except

Code	Industry groups	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
38	Instruments and related products	3,034	29	29	11	13	5	(Z)	76
3811	Scientific instruments	236	1	1	1	(Z)	1	-	2
382	Mechanical measuring devices	796	5	5	4	(Z)	1	-	6
3821	Mechanical measuring devices	431	3	3	3	(Z)	(Z)	-	4
3822	Automatic temperature controls	365	1	1	1	-	1	-	2
384	Medical instruments and supplies	274	3	3	2	(Z)	(Z)	(Z)	3
3861	Photographic equipment	1,313	14	14	2	8	3	(Z)	52
387	Watches, clocks, and watchcases	275	1	1	1	(Z)	(Z)	-	3
3871	Watches and clocks	275	1	1	1	(Z)	(Z)	-	3
39	Miscellaneous manufacturing	862	13	13	5	6	2	-	22
391	Jewelry and silverware	169	4	4	1	4	(Z)	-	5
3914	Silverware and plated ware	109	4	4	1	4	(Z)	-	5
394	Toys and sporting goods	231	3	3	1	1	1	-	4
3941	Games and toys	113	1	1	(Z)	-	(Z)	-	1
3949	Sporting and athletic goods	101	2	2	1	1	(Z)	-	3
396	Costume jewelry and notions	90	2	2	1	1	(Z)	-	2
3964	Needles, pins, and fasteners	42	1	1	1	1	-	-	2
398, 399	Miscellaneous manufactures	290	3	3	1	1	1	-	10

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries whether or not separate figures are shown for the individual industries.

- Represents zero.
(D) Withheld to avoid disclosing figures for individual companies.
(Z) Less than 500 million gallons.
[1]Figures for 1964 exclude and figures for 1959 include, extablishments classified in Major Groups 19, 23, and 27. In 1959, such establishments had total water intake of 35 billion gallons, gross water use of 95 billion gallons, discharge of 32 billion gallons of water, and 338 thousand employees.

and Discharged, Water by Discharge Point: 1964—Continued

GROUPS—Continued

value)

Water treated and discharged												
Total discharged	Amount treated prior to discharge	Point of discharge										Code
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)			Transferred to other users	
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
26	9	13	-	1	14	7	(Z)	-	-	-	-	38
1	(Z)	1	-	-	(Z)	-	-	-	-	-	-	3811
5	(Z)	4	-	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	-	382
3	(Z)	3	-	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	-	3821
1	(Z)	1	-	(Z)	(Z)	-	(Z)	-	-	-	-	3822
3	(Z)	2	-	-	1	(Z)	(Z)	(Z)	-	-	-	384
12	8	4	-	(Z)	9	7	(Z)	(Z)	-	(Z)	-	3861
1	(Z)	1	-	(Z)	(Z)	-	(Z)	-	-	-	-	387
1	(Z)	1	-	(Z)	(Z)	-	(Z)	-	-	-	-	3871
12	(Z)	8	(Z)	(Z)	7	(Z)	1	1	-	(Z)	(Z)	39
4	(Z)	1	-	(Z)	3	(Z)	(Z)	(Z)	-	-	-	391
3	(Z)	(Z)	-	(Z)	3	-	(Z)	(Z)	-	-	-	3914
2	(Z)	6	(Z)	(Z)	1	(Z)	(Z)	(Z)	-	-	(Z)	394
1	(Z)	5	-	-	(Z)	(Z)	-	(Z)	-	-	-	3941
2	(Z)	1	-	(Z)	1	-	(Z)	(Z)	-	-	(Z)	3949
2	(Z)	(Z)	-	(Z)	1	-	-	1	-	(Z)	(Z)	396
1	(Z)	(Z)	-	(Z)	1	-	-	1	-	(Z)	-	3964
3	(Z)	1	-	(Z)	1	-	(Z)	-	-	-	-	398 399

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

B. WATER USE REGIONS AND

(In billion gallons except

Code	Water use region, major industry group, and industry	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
	United States, total[1]	213,400	14,045	11,209	1,383	8,466	1,360	2,836	30,599
	New England	10,180	530	406	80	302	24	125	909
20	Food and kindred products	637	16	8	4	3	2	8	21
2037	Frozen fruits and vegetables	22	1	1	(Z)	1	(Z)	-	3
2082	Malt liquors	55	3	3	1	1	1	-	4
22	Textile mill products	623	27	26	5	20	1	1	29
2221	Weaving mills, synthetics	58	2	1	(Z)	1	-	(Z)	2
2231	Weaving, finishing mills, wool	161	10	10	1	8	1	-	10
2261	Finishing plants, cotton	80	6	6	(Z)	6	(Z)	-	7
2262	Finishing plants, synthetic	30	4	3	1	2	-	1	4
26	Paper and allied products	949	240	238	10	222	6	2	527
2621	Paper mills, except building	683	196	194	7	182	5	2	437
2631	Paperboard mills	63	11	11	2	8	1	1	23
28	Chemicals and allied products	608	61	22	12	4	7	39	81
2815	Intermediate coal tar products	31	2	2	1	(Z)	(Z)	-	3
2821	Plastics materials and resins	210	9	9	6	2	1	(Z)	15
29	Petroleum and coal products	27	1	(Z)	(Z)	(Z)	(Z)	1	2
30	Rubber and plastics products, n.e.c	638	22	22	4	16	2	1	47
3011	Tires and inner tubes	121	2	2	1	1	(Z)	-	4
3021	Rubber footwear	194	3	3	(Z)	2	(Z)	-	4
3069	Rubber products, n.e.c	273	14	14	2	11	1	1	20
3079	Plastics products, n.e.c	50	3	3	1	2	(Z)	-	19
31	Leather and leather products	99	4	4	1	2	1	(Z)	5
3111	Leather tanning and finishing	99	4	4	1	2	1	(Z)	5
32	Stone, clay, and glass products	202	3	3	2	1	1	(Z)	4
33	Primary metal industries	911	42	37	17	19	1	5	58
3312	Blast furnaces and steel mills	72	8	4	1	3	(Z)	5	9
3316	Cold finishing of steel shapes	81	2	2	1	1	(Z)	-	2
3351	Copper rolling and drawing	418	21	21	6	14	1	-	34
3357	Nonferrous wire drawing, etc	182	2	2	1	1	(Z)	-	4
34	Fabricated metal products	492	6	5	4	(Z)	1	1	9
3429	Hardware, n.e.c	124	1	1	1	-	(Z)	-	2
35	Machinery, except electrical	1,011	30	5	4	1	(Z)	25	38
36	Electrical machinery	1,394	8	8	6	2	1	-	11
37	Transportation equipment	1,721	53	11	6	4	1	41	56
38	Instruments and related products	391	7	7	3	4	(Z)	-	9
39	Miscellaneous manufacturing	294	7	7	2	4	1	-	8
	Delaware and Hudson	24,067	1,256	867	117	680	69	390	2,347
20	Food and kindred products	3,285	58	40	19	13	8	18	85
2011	Meat slaughtering plants	207	2	2	1	(Z)	1	-	3
2026	Fluid milk	274	2	2	1	(Z)	1	(Z)	3
2062	Cane sugar refining	329	15	11	2	9	-	4	19
2071	Confectionery products	167	1	1	1	-	(Z)	-	3
2082	Malt liquors	475	9	6	5	(Z)	1	3	14
2095	Roasted coffee	323	1	1	(Z)	(Z)	(Z)	-	2
22	Textile mill products	343	14	14	5	8	1	(Z)	62
2256	Knit fabric mills	79	2	2	1	(Z)	(Z)	-	45
2261	Finishing plants, cotton	30	3	3	(Z)	3	(Z)	-	3
2262	Finishing plants, synthetic	42	5	5	2	2	(Z)	(Z)	5
26	Paper and allied products	719	121	121	3	106	12	1	307
2621	Paper mills, except building	299	99	99	1	88	10	-	146
2631	Paperboard mills	112	12	12	1	11	1	(Z)	146
2661	Building paper and board mills	15	5	4	(Z)	4	-	1	6
28	Chemicals and allied products	4,244	264	162	43	100	19	101	407
2815	Intermediate coal tar products	388	45	40	3	34	2	5	77
2816	Inorganic pigments	192	41	8	5	2	1	32	50
2818	Organic chemicals, n.e.c	545	71	29	4	22	3	42	110
2819	Inorganic chemicals, n.e.c	187	24	16	3	11	1	8	24
2821	Plastics materials and resins	497	30	29	3	22	4	1	60
2834	Pharmaceutical preparations	1,304	9	9	4	1	5	(Z)	26

See footnotes at end of table.

and Discharged Water by Discharge Point: 1964

MAJOR INDUSTRY GROUPS

value)

Water treated and discharged												Code
Total discharged	Amount treated prior to discharge	Point of discharge										
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)			Transferred to other users	
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
13,157	3,825	987	31	266	11,759	404	6,179	195	(Z)	83	217	
482	55	48	(Z)	9	413	4	134	2	(Z)	1	18	
15	2	3	(Z)	1	12	(Z)	3	(Z)	(Z)	(Z)	(Z)	20
1	1	1	-	1	(Z)	(Z)	-	(Z)	(Z)	(Z)	-	2037
3	(Z)	1	(Z)	-	2	-	-	-	-	-	(Z)	2082
26	4	3	-	(Z)	23	-	1	(Z)	-	(Z)	(Z)	22
2	1	(Z)	-	(Z)	1	-	(Z)	-	-	-	-	2221
9	(Z)	(Z)	-	(Z)	9	-	(Z)	(Z)	-	-	-	2231
6	3	1	-	(Z)	6	-	(Z)	-	-	-	-	2261
4	-	1	-	-	3	-	-	-	-	-	-	2262
226	29	5	(Z)	2	202	3	97	(Z)	-	(Z)	18	26
186	24	3	-	1	167	2	81	(Z)	-	-	15	2621
8	4	(Z)	-	(Z)	8	1	1	(Z)	-	(Z)	(Z)	2631
38	11	3	-	2	35	1	21	(Z)	-	(Z)	(Z)	28
2	(Z)	(Z)	-	-	1	-	-	(Z)	-	(Z)	-	2815
8	1	1	-	-	7	1	2	(Z)	-	(Z)	-	2821
1	1	(Z)	-	(Z)	1	-	-	(Z)	-	(Z)	-	29
21	1	4	-	2	17	(Z)	2	(Z)	-	(Z)	-	30
2	(Z)	1	-	1	1	-	-	(Z)	-	(Z)	-	3011
2	(Z)	(Z)	-	(Z)	2	-	1	(Z)	-	(Z)	-	3021
13	(Z)	2	-	1	12	(Z)	1	(Z)	-	-	-	3069
3	(Z)	1	-	-	2	-	-	(Z)	-	-	-	3079
3	3	1	-	(Z)	2	-	1	(Z)	-	(Z)	-	31
3	3	1	-	(Z)	2	-	1	(Z)	-	(Z)	-	3111
3	1	1	-	(Z)	2	(Z)	1	(Z)	-	(Z)	-	32
40	1	10	-	(Z)	30	(Z)	2	(Z)	-	(Z)	(Z)	33
8	-	(Z)	-	-	8	-	-	-	-	-	-	3312
2	(Z)	(Z)	-	-	1	(Z)	-	(Z)	-	-	(Z)	3316
19	1	2	-	(Z)	18	(Z)	1	(Z)	-	-	-	3351
2	(Z)	1	-	(Z)	2	-	(Z)	(Z)	-	(Z)	-	3357
6	1	3	-	(Z)	3	(Z)	-	(Z)	-	(Z)	-	34
1	(Z)	1	-	-	(Z)	-	-	(Z)	-	-	-	3429
28	1	4	(Z)	1	24	-	(Z)	(Z)	-	(Z)	-	35
8	(Z)	4	-	(Z)	5	(Z)	(Z)	(Z)	-	(Z)	(Z)	36
52	1	3	(Z)	(Z)	49	(Z)	6	(Z)	-	(Z)	(Z)	37
7	(Z)	3	-	(Z)	4	-	(Z)	-	-	-	-	38
6	(Z)	1	-	(Z)	5	(Z)	(Z)	(Z)	-	(Z)	(Z)	39
1,200	482	87	3	17	1,092	48	642	16	-	7	5	
54	5	16	(Z)	2	35	(Z)	14	3	-	2	1	20
2	(Z)	1	-	-	(Z)	-	-	(Z)	-	-	(Z)	2011
3	(Z)	2	-	-	(Z)	-	-	(Z)	-	-	(Z)	2026
14	-	(Z)	-	-	14	-	-	-	-	-	(Z)	2062
1	(Z)	1	-	-	(Z)	-	-	(Z)	-	-	-	2071
8	1	5	-	1	3	-	-	(Z)	-	-	(Z)	2082
1	-	(Z)	-	-	1	-	-	(Z)	-	-	(Z)	2095
13	2	8	(Z)	(Z)	5	1	2	(Z)	-	-	(Z)	22
1	(Z)	1	-	(Z)	(Z)	(Z)	-	(Z)	-	-	-	2256
3	(Z)	1	(Z)	(Z)	1	-	-	(Z)	-	-	(Z)	2261
5	1	4	-	(Z)	1	(Z)	-	(Z)	-	-	(Z)	2262
118	28	12	-	2	105	7	64	(Z)	-	(Z)	1	26
98	20	9	-	2	89	6	57	(Z)	-	(Z)	(Z)	2621
10	7	3	-	(Z)	7	1	2	-	-	-	(Z)	2631
5	1	(Z)	-	(Z)	5	-	4	(Z)	-	-	-	2661
252	91	19	2	3	231	(Z)	157	1	-	(Z)	(Z)	28
43	32	1	1	(Z)	41	-	32	(Z)	-	(Z)	-	2815
38	3	1	-	(Z)	37	-	34	(Z)	-	(Z)	-	2816
68	42	2	(Z)	1	66	-	25	(Z)	-	-	(Z)	2818
22	2	1	-	-	22	(Z)	13	(Z)	-	(Z)	-	2819
34	4	4	1	(Z)	30	-	23	(Z)	-	(Z)	(Z)	2821
7	3	5	(Z)	(Z)	2	(Z)	(Z)	(Z)	-	-	-	2834

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

B. WATER USE REGIONS AND

(In billion gallons except

Code	Water use region, major industry group, and industry	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
	Delaware and Hudson—Continued								
28	Chemicals and allied products—Continued								
2841	Soap and other detergents	140	3	1	1	-	(Z)	2	4
2892	Explosives	60	1	1	(Z)	1	1	-	2
2899	Chemical preparations, n.e.c	36	1	1	(Z)	(Z)	1	(Z)	2
29	Petroleum and coal products	2,271	359	127	6	117	4	232	839
2911	Petroleum refining	2,214	358	125	6	116	4	232	837
2952	Asphalt felts and coatings	46	2	2	(Z)	1	(Z)	-	2
30	Rubber and plastics products, n.e.c	521	9	9	3	5	1	(Z)	17
3069	Rubber products, n.e.c	202	6	5	2	3	(Z)	(Z)	8
32	Stone, clay, and glass products	580	39	27	2	18	6	12	51
3221	Glass containers	142	2	2	(Z)	-	1	(Z)	2
3241	Cement, hydraulic	106	21	16	(Z)	16	(Z)	5	30
33	Primary metal industries	2,401	300	277	15	255	6	23	384
3312	Blast furnaces and steel mills	1,022	263	261	6	252	4	2	326
3323	Steel foundries	34	1	1	(Z)	1	(Z)	-	2
3341	Secondary nonferrous metals	123	1	1	(Z)	(Z)	(Z)	(Z)	2
3351	Copper rolling and drawing	299	4	3	1	2	1	1	5
3357	Nonferrous wire drawing, etc	383	4	3	2	-	1	1	9
34	Fabricated metal products	628	11	11	3	6	1	(Z)	50
3461	Metal stampings	161	1	1	1	-	(Z)	(Z)	21
35	Machinery, except electrical	1,417	43	43	3	39	1	(Z)	58
36	Electrical machinery	2,562	20	20	7	9	3	1	32
3662	Radio, TV communications equipment	1,128	10	10	2	6	2	-	14
3674	Semiconductors	150	1	1	1	-	(Z)	-	6
3679	Electronic components, n.e.c	137	1	1	(Z)	-	(Z)	-	2
37	Transportation equipment	4,342	10	9	5	1	3	1	44
3717	Motor vehicles and parts	2,787	3	3	3	-	(Z)	-	27
3731	Ship building and repairing	136	3	2	1	1	(Z)	1	3
38	Instruments and related products	451	2	2	1	(Z)	1	(Z)	4
3861	Photographic equipment	93	1	1	(Z)	-	1	(Z)	2
39	Miscellaneous manufacturing	176	3	3	1	1	1	-	4
	Chesapeake Bay	8,927	757	419	62	302	56	337	1,567
20	Food and kindred products	1,532	29	24	8	5	10	5	45
2011	Meat slaughtering plants	138	1	1	(Z)	-	(Z)	-	1
2015	Poultry dressing plants	119	2	1	(Z)	(Z)	1	(Z)	2
2023	Condensed and evaporated milk	28	1	1	(Z)	(Z)	(Z)	-	1
2026	Fluid milk	150	2	2	1	(Z)	1	-	5
2033	Canned fruits and vegetables	163	1	1	1	(Z)	1	-	2
2037	Frozen fruits and vegetables	121	1	1	(Z)	(Z)	1	-	3
2082	Malt liquors	75	2	2	2	-	(Z)	-	3
22	Textile mill products	243	3	3	1	1	1	-	4
26	Paper and allied products	446	119	116	8	90	17	4	718
2621	Paper mills, except building	231	76	76	3	62	12	-	619
2631	Paperboard mills	158	39	35	1	29	6	4	83
28	Chemicals and allied products	1,145	180	159	14	137	9	21	229
2816	Inorganic pigments	50	13	3	1	2	(Z)	10	14
2834	Pharmaceutical preparations	186	1	1	(Z)	(Z)	(Z)	-	2
2871	Fertilizers	23	3	(Z)	(Z)	(Z)	(Z)	2	3
30	Rubber and plastics products, n.e.c	181	8	8	3	3	2	-	11
3079	Plastics products, n.e.c	40	2	2	(Z)	1	2	-	3
31	Leather and leather products	42	2	2	1	1	(Z)	-	2
3111	Leather tanning and finishing	42	2	2	1	1	(Z)	-	2
32	Stone, clay, and glass products	323	15	13	3	7	3	1	18
3241	Cement, hydraulic	61	8	8	(Z)	7	1	-	9
34	Fabricated metal products	225	2	2	1	(Z)	(Z)	-	4
35	Machinery, except electrical	553	3	3	2	(Z)	1	-	12

See footnotes at end of table.

and Discharged Water by Discharge Point: 1964—Continued

MAJOR INDUSTRY GROUPS—Continued

value)

Water treated and discharged												Code
		Point of discharge										
Total discharged	Amount treated prior to discharge	Public utility sewer			Surface water body			Ground (wells, spray, etc.)			Transferred to other users	
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
2	(Z)	(Z)	-	(Z)	2	-	1	(Z)	-	-	(Z)	2841
1	(Z)	(Z)	-	(Z)	1	-	1	(Z)	-	(Z)	-	2892
1	1	1	-	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	2899
352	247	1	-	1	349	37	125	1	-	1	1	29
350	246	(Z)	-	(Z)	348	37	124	1	-	1	1	2911
1	1	1	-	(Z)	1	-	1	-	-	-	-	2952
9	(Z)	2	-	(Z)	6	-	2	(Z)	-	(Z)	-	30
5	(Z)	2	-	(Z)	3	-	(Z)	(Z)	-	(Z)	-	3069
37	4	1	(Z)	(Z)	34	(Z)	6	1	-	-	1	32
2	(Z)	(Z)	-	(Z)	1	(Z)	(Z)	-	-	-	-	3221
19	(Z)	(Z)	-	(Z)	19	-	4	(Z)	-	-	-	3241
278	91	9	(Z)	2	265	1	232	4	-	1	(Z)	33
244	89	3	(Z)	1	237	-	227	3	-	(Z)	-	3312
1	(Z)	(Z)	-	-	1	(Z)	-	-	-	-	-	3323
1	(Z)	(Z)	-	(Z)	1	-	(Z)	-	-	-	-	3341
3	1	2	-	-	1	(Z)	-	1	-	(Z)	(Z)	3351
3	-	2	-	-	1	-	-	(Z)	-	-	(Z)	3357
8	4	2	-	(Z)	6	-	5	(Z)	-	-	(Z)	34
1	(Z)	1	-	(Z)	(Z)	-	(Z)	-	-	-	-	3461
43	3	3	-	2	39	(Z)	32	(Z)	-	(Z)	(Z)	35
20	4	7	(Z)	3	10	2	1	2	-	1	(Z)	36
10	2	2	-	-	6	-	(Z)	2	-	1	(Z)	3662
1	(Z)	1	-	1	(Z)	-	(Z)	(Z)	-	-	-	3674
1	(Z)	(Z)	-	(Z)	(Z)	(Z)	(Z)	(Z)	-	(Z)	-	3679
9	1	3	-	1	4	-	1	3	-	3	(Z)	37
2	(Z)	1	-	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	3717
2	-	(Z)	-	-	2	-	-	(Z)	-	-	(Z)	3731
2	-	(Z)	-	1	2	-	(Z)	-	-	-	-	38
1	(Z)	(Z)	-	-	1	-	-	(Z)	-	(Z)	-	3861
3	(Z)	1	-	(Z)	2	-	(Z)	(Z)	-	-	-	39
715	183	40	3	9	660	2	458	11	-	7	10	
27	3	6	(Z)	(Z)	20	(Z)	7	2	-	(Z)	(Z)	20
(Z)	(Z)	(Z)	(Z)	-	(Z)	-	-	-	-	-	-	2011
2	(Z)	(Z)	-	-	1	-	(Z)	(Z)	-	-	(Z)	2015
1	(Z)	(Z)	(Z)	-	1	-	(Z)	(Z)	-	(Z)	-	2023
2	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	-	-	2026
1	1	(Z)	(Z)	(Z)	1	-	(Z)	(Z)	-	(Z)	-	2033
1	1	(Z)	-	(Z)	(Z)	(Z)	(Z)	(Z)	-	(Z)	-	2037
2	-	2	-	-	(Z)	-	-	(Z)	-	-	-	2082
3	2	2	-	(Z)	1	-	(Z)	(Z)	-	(Z)	-	22
113	47	11	3	4	94	2	63	(Z)	-	(Z)	7	26
68	32	9	2	4	59	1	43	-	-	-	-	2621
40	14	2	1	(Z)	31	(Z)	16	(Z)	-	(Z)	7	2631
177	23	1	-	(Z)	171	(Z)	88	5	-	5	(Z)	28
13	2	(Z)	-	-	13	-	6	(Z)	-	(Z)	-	2816
(Z)	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	(Z)	-	-	-	2834
3	(Z)	(Z)	-	(Z)	3	-	1	(Z)	-	(Z)	(Z)	2871
5	1	1	-	(Z)	4	-	1	(Z)	-	-	(Z)	30
2	1	(Z)	-	-	2	-	1	(Z)	-	-	(Z)	3079
2	(Z)	1	-	(Z)	1	(Z)	(Z)	(Z)	-	-	-	31
2	(Z)	1	-	(Z)	1	(Z)	(Z)	(Z)	-	-	-	3111
17	3	1	-	(Z)	13	(Z)	1	2	-	(Z)	2	32
10	(Z)	(Z)	-	-	9	-	(Z)	-	-	-	2	3241
1	(Z)	1	-	(Z)	1	(Z)	-	(Z)	-	-	-	34
3	(Z)	2	-	(Z)	(Z)	(Z)	(Z)	(Z)	-	-	-	35

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

B. WATER USE REGIONS AND

(In billion gallons except

Code	Water use region, major industry group, and industry	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
	Chesapeake Bay—Continued								
36	Electrical machinery	893	5	5	5	-	(Z)	-	10
3662	Radio, TV communications equipment	459	1	1	1	-	-	-	2
37	Transportation equipment	1,016	14	7	6	-	(Z)	7	21
3717	Motor vehicles and parts	416	1	1	1	-	(Z)	-	2
38	Instruments and related products	125	3	3	1	-	2	-	5
39	Miscellaneous manufacturing	143	1	1	1	-	-	-	7
	Eastern Great Lakes-St. Lawrence	28,957	1,525	1,483	188	1,268	28	41	2,412
20	Food and kindred products	1,757	22	22	13	7	3	(Z)	61
2023	Condensed and evaporated milk	49	2	2	(Z)	(Z)	1	-	2
2026	Fluid milk	271	3	3	2	(Z)	1	-	5
2032	Canned specialties	185	3	3	1	2	(Z)	(Z)	3
2033	Canned fruits and vegetables	147	2	2	1	(Z)	(Z)	-	3
2082	Malt liquors	140	4	4	4	-	(Z)	-	7
22	Textile mill products	60	2	2	(Z)	1	(Z)	-	2
26	Paper and allied products	314	96	96	3	93	1	(Z)	183
2621	Paper mills, except building	225	74	74	2	72	-	-	130
2631	Paperboard mills	62	18	18	(Z)	16	1	(Z)	41
28	Chemicals and allied products	1,409	359	319	69	239	11	40	450
2812	Alkalies and chlorine	232	132	97	41	56	1	35	146
2818	Organic chemicals, n.e.c.	185	56	56	7	48	1	-	65
2819	Inorganic chemicals, n.e.c.	198	107	102	4	92	6	5	120
2821	Plastics materials and resins	183	18	18	2	14	2	-	35
2899	Chemical preparations, n.e.c.	74	12	12	3	7	1	-	13
29	Petroleum and coal products	821	71	71	5	65	1	-	232
2911	Petroleum refining	800	70	70	4	65	1	-	232
30	Rubber and plastics products, n.e.c.	1,482	43	43	6	33	4	-	89
3011	Tires and inner tubes	1,067	33	33	3	27	3	-	70
3069	Rubber products, n.e.c.	346	6	6	2	3	1	-	14
32	Stone, clay, and glass products	576	29	29	6	23	1	-	46
3241	Cement, hydraulic	49	8	8	(Z)	8	(Z)	-	9
3274	Lime	29	1	1	-	(Z)	1	-	4
33	Primary metal industries	4,169	779	779	32	747	1	(Z)	1,075
3312	Blast furnaces and steel mills	2,617	735	734	18	716	(Z)	(Z)	1,008
3317	Steel pipe and tube	72	1	1	1	(Z)	-	-	2
3351	Copper rolling and drawing	284	4	4	4	1	(Z)	-	5
3361	Aluminum castings	116	2	2	1	1	(Z)	-	4
34	Fabricated metal products	727	8	8	8	-	(Z)	-	12
35	Machinery, except electrical	1,598	7	7	6	(Z)	(Z)	(Z)	17
3519	Internal combustion engines	260	1	1	1	-	(Z)	-	6
3562	Ball and roller bearings	136	1	1	1	(Z)	(Z)	-	3
36	Electrical machinery	1,699	9	9	7	1	(Z)	-	22
3621	Motors and generators	457	2	2	2	-	-	-	10
3662	Radio, TV communications equipment	282	1	1	1	-	(Z)	-	2
37	Transportation equipment	13,005	85	85	31	51	3	(Z)	173
3717	Motor vehicles and parts	12,384	81	81	27	51	3	(Z)	160
3729	Aircraft equipment, n.e.c.	229	2	2	2	(Z)	(Z)	-	2
38	Instruments and related products	1,126	10	10	2	8	(Z)	-	46
3861	Photographic equipment	241	1	1	1	-	-	-	4
	Ohio River	28,463	2,474	2,462	119	2,160	183	12	3,943
20	Food and kindred products	2,654	38	38	12	5	22	(Z)	63
2011	Meat slaughtering plants	676	6	6	2	(Z)	4	(Z)	10
2026	Fluid milk	273	3	3	2	(Z)	1	-	7
2082	Malt liquors	112	3	3	2	-	1	-	6
2085	Distilled liquor, except brandy	471	13	13	1	3	9	-	19
2096	Shortening and cooking oils	208	2	2	1	-	1	-	4
21	Tobacco manufactures	390	1	1	1	-	-	-	3
22	Textile mill products	83	2	2	1	1	(Z)	-	2

See footnotes at end of table.

and Discharged Water by Discharge Point: 1964—Continued

MAJOR INDUSTRY GROUPS—Continued

value)

Water treated and discharged												Code
Total discharged	Amount treated prior to discharge	Point of discharge									Transferred to other users	
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)				
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
4	1	2	(Z)	(Z)	1	(Z)	1	(Z)	-	-	(Z)	36
1	(Z)	(Z)	-	(Z)	(Z)	(Z)	(Z)	-	-	-	-	3662
13	(Z)	4	-	3	10	(Z)	1	(Z)	-	(Z)	(Z)	37
1	(Z)	(Z)	-	-	1	(Z)	1	-	-	-	-	3717
2	(Z)	2	-	(Z)	-	-	-	-	-	-	-	38
(Z)	(Z)	5	-	(Z)	(Z)	(Z)	(Z)	-	-	-	-	39
1,435	456	154	(Z)	51	1,268	35	938	9	-	(Z)	4	
20	4	11	(Z)	1	8	2	1	1	-	(Z)	(Z)	20
2	(Z)	(Z)	-	(Z)	1	-	(Z)	(Z)	-	(Z)	-	2023
3	(Z)	2	(Z)	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	2026
2	1	1	-	(Z)	1	1	-	(Z)	-	-	(Z)	2032
2	1	1	(Z)	(Z)	1	(Z)	(Z)	(Z)	-	(Z)	(Z)	2033
3	-	3	-	-	(Z)	-	-	-	-	-	-	2082
2	-	(Z)	-	-	1	-	-	-	-	-	-	22
87	27	5	-	(Z)	83	13	41	(Z)	-	(Z)	-	26
68	18	5	-	(Z)	63	11	33	(Z)	-	(Z)	-	2621
15	7	(Z)	-	(Z)	15	1	6	(Z)	-	(Z)	-	2631
344	112	56	(Z)	22	284	1	177	2	-	(Z)	3	28
123	73	19	-	19	101	-	48	2	-	-	(Z)	2812
52	5	19	-	1	33	-	19	(Z)	-	(Z)	-	2818
107	25	2	-	1	102	(Z)	89	1	-	-	3	2819
18	3	3	-	(Z)	15	1	5	-	-	-	(Z)	2821
11	(Z)	1	(Z)	(Z)	11	-	-	(Z)	-	-	(Z)	2899
67	40	1	-	(Z)	65	3	(Z)	(Z)	-	-	-	29
66	40	1	-	-	65	3	(Z)	-	-	-	-	2911
42	2	5	-	3	36	-	18	1	-	(Z)	(Z)	30
33	1	2	-	1	30	-	17	(Z)	-	(Z)	(Z)	3011
5	1	1	-	(Z)	4	-	1	(Z)	-	-	(Z)	3069
27	4	3	(Z)	(Z)	24	2	20	(Z)	-	(Z)	(Z)	32
7	(Z)	(Z)	-	(Z)	7	-	6	-	-	-	-	3241
(Z)	(Z)	(Z)	-	-	(Z)	-	(Z)	(Z)	-	-	-	3274
730	249	29	-	10	696	7	627	5	-	(Z)	(Z)	33
686	231	11	-	9	671	(Z)	616	4	-	-	(Z)	3312
1	-	1	-	-	1	-	-	(Z)	-	-	-	3317
4	3	4	-	1	(Z)	-	(Z)	(Z)	-	-	-	3351
2	1	1	-	-	1	-	-	-	-	-	(Z)	3361
8	1	6	-	1	2	-	2	(Z)	-	(Z)	(Z)	34
6	(Z)	4	-	1	2	-	1	(Z)	-	(Z)	(Z)	35
1	(Z)	1	-	(Z)	-	-	-	-	-	-	(Z)	3519
1	(Z)	(Z)	-	-	(Z)	-	(Z)	-	-	-	-	3562
8	1	6	-	1	2	(Z)	1	(Z)	-	(Z)	(Z)	36
2	(Z)	2	-	(Z)	(Z)	-	(Z)	-	-	-	-	3621
1	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	-	-	-	-	3662
82	9	26	-	9	56	1	51	(Z)	-	(Z)	(Z)	37
78	8	24	-	8	54	1	49	(Z)	-	(Z)	(Z)	3717
2	(Z)	1	-	(Z)	1	-	1	(Z)	-	(Z)	-	3729
9	7	2	-	1	7	7	(Z)	-	-	-	-	38
1	(Z)	1	-	(Z)	(Z)	-	(Z)	-	-	-	-	3861
2,351	415	166	5	73	2,164	11	1,593	15	-	7	6	
31	3	21	(Z)	2	9	(Z)	1	1	-	(Z)	(Z)	20
6	1	4	(Z)	1	2	-	(Z)	(Z)	-	-	(Z)	2011
2	(Z)	2	-	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	2026
2	(Z)	2	-	(Z)	(Z)	-	-	-	-	-	(Z)	2082
9	(Z)	6	(Z)	-	3	-	(Z)	(Z)	-	-	-	2085
2	(Z)	1	-	1	1	-	-	-	-	-	-	2096
(Z)	-	(Z)	-	-	-	-	-	-	-	-	-	21
1	1	1	-	-	1	-	-	-	-	-	-	22

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

B. WATER USE REGIONS AND

(In billion gallons except

Code	Water use region, major industry group, and industry	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
	Ohio River—Continued								
26	Paper and allied products	535	58	58	3	24	30	-	189
2621	Paper mills, except building	267	39	39	1	20	18	-	70
2631	Paperboard mills	109	11	11	2	4	6	-	106
28	Chemicals and allied products	3,081	731	726	21	664	41	5	1,229
2815	Intermediate coal tar products	177	7	7	1	(Z)	6	-	25
2818	Organic chemicals, n.e.c	845	344	342	5	327	10	2	522
2819	Inorganic chemicals, n.e.c	326	72	71	2	64	4	2	246
2821	Plastics materials and resins	406	54	54	2	45	8	-	82
2899	Chemical preparations, n.e.c	52	1	1	(Z)	-	(Z)	-	14
29	Petroleum and coal products	734	31	31	1	20	10	-	228
2911	Petroleum refining	686	30	30	1	20	10	-	228
30	Rubber and plastics products, n.e.c	656	10	10	5	1	4	-	18
3011	Tires and inner tubes	150	2	2	(Z)	1	1	-	6
3069	Rubber products, n.e.c	340	4	4	2	(Z)	2	-	8
3079	Plastics products, n.e.c	166	4	4	3	-	1	-	5
32	Stone, clay, and glass products	951	23	23	7	10	6	(Z)	50
3221	Glass containers	241	2	2	1	(Z)	1	-	5
3229	Pressed and blown glass, n.e.c	177	2	2	1	-	1	-	3
3241	Cement, hydraulic	104	8	8	1	4	3	-	17
33	Primary metal industries	8,045	1,506	1,501	32	1,424	45	5	2,011
3312	Blast furnaces and steel mills	6,101	1,272	1,268	24	1,214	29	5	1,742
3316	Cold finishing of steel shapes	118	2	2	1	(Z)	(Z)	-	2
3317	Steel pipe and tube	234	5	5	1	3	1	-	7
3321	Gray iron foundries	116	2	2	1	(Z)	1	-	3
3323	Steel foundries	166	2	2	1	1	1	(Z)	4
3352	Aluminum rolling and drawing	275	3	3	1	-	3	-	5
3356	Rolling and drawing, n.e.c	206	3	3	1	1	1	-	7
3357	Nonferrous wire drawing, etc	213	1	1	(Z)	-	1	-	3
3391	Iron and steel forgings	120	1	1	1	-	1	-	5
34	Fabricated metal products	1,077	9	9	4	(Z)	4	(Z)	11
35	Machinery, except electrical	1,755	13	13	7	(Z)	6	1	25
3566	Power transmission equipment	106	1	1	(Z)	-	1	-	2
3585	Refrigeration machinery	189	1	1	1	-	(Z)	-	4
36	Electrical machinery	3,797	35	35	16	9	9	(Z)	62
3632	Household refrigerators	916	10	10	5	-	5	-	14
3633	Household laundry equipment	285	1	1	1	-	(Z)	-	3
37	Transportation equipment	4,266	15	13	8	1	4	2	47
3717	Motor vehicles and parts	3,009	8	7	4	1	2	1	27
3742	Railroad and street cars	254	2	1	1	(Z)	-	1	2
	Tennessee	3,287	407	407	23	373	12	(Z)	758
20	Food and kindred products	275	3	3	1	1	1	-	10
22	Textile mill products	392	12	12	3	4	4	-	17
26	Paper and allied products	252	75	75	2	73	(Z)	-	160
2621	Paper mills, except building	191	64	64	(Z)	64	-	-	131
28	Chemicals and allied products	1,199	252	252	12	236	3	-	427
2821	Plastics materials and resins	131	7	7	1	7	-	-	13
32	Stone, clay, and glass products	84	3	3	(Z)	2	(Z)	-	4
33	Primary metal industries	615	25	25	3	21	1	-	90
36	Electrical machinery	166	1	1	1	(Z)	(Z)	-	4
	Southeast	15,747	1,001	822	133	424	265	179	2,676
20	Food and kindred products	1,733	42	42	11	6	25	(Z)	65
2011	Meat slaughtering plants	275	2	2	1	-	1	-	4
2015	Poultry dressing plants	337	5	5	4	(Z)	1	-	6
2026	Fluid milk	155	2	2	2	(Z)	(Z)	-	4
2033	Canned fruits and vegetables	96	2	2	1	-	2	-	3
2037	Frozen fruits and vegetables	233	14	14	(Z)	-	14	-	17
2082	Malt liquors	63	1	1	1	-	(Z)	-	2
2094	Animal and marine fats and oils	22	4	4	1	2	1	(Z)	4
2097	Manufactured ice	2	3	3	(Z)	-	3	-	5

See footnotes at end of table.

and Discharged Water by Discharge Point: 1964—Continued

MAJOR INDUSTRY GROUPS—Continued

value)

Water treated and discharged												Code
Total discharged	Amount treated prior to discharge	Point of discharge										
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)			Transferred to other users	
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
51	21	4	1	1	44	4	37	(Z)	-	(Z)	3	26
36	15	1	-	1	32	1	29	(Z)	-	(Z)	3	2621
10	5	3	1	1	7	1	4	(Z)	-	(Z)	-	2631
708	96	28	4	5	674	5	458	6	-	2	(Z)	28
5	3	1	-	(Z)	5	(Z)	3	(Z)	-	(Z)	-	2815
338	16	4	4	(Z)	334	-	230	(Z)	-	(Z)	(Z)	2818
63	4	2	-	1	60	2	55	(Z)	-	(Z)	(Z)	2819
53	2	11	(Z)	2	40	(Z)	15	2	-	2	(Z)	2821
(Z)	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	-	(Z)	-	2899
24	16	(Z)	-	(Z)	24	(Z)	9	(Z)	-	(Z)	(Z)	29
24	16	(Z)	-	(Z)	24	(Z)	9	(Z)	-	(Z)	-	2911
9	1	4	-	(Z)	4	-	(Z)	(Z)	-	-	(Z)	30
2	1	(Z)	-	-	1	-	-	(Z)	-	-	-	3011
4	(Z)	2	-	(Z)	2	-	(Z)	-	-	-	-	3069
4	(Z)	2	-	-	1	-	(Z)	(Z)	-	-	(Z)	3079
21	2	4	(Z)	1	15	(Z)	4	1	-	(Z)	(Z)	32
2	(Z)	1	(Z)	(Z)	1	(Z)	(Z)	(Z)	-	-	(Z)	3221
2	(Z)	1	-	(Z)	1	-	(Z)	(Z)	-	-	-	3229
6	1	(Z)	(Z)	(Z)	6	-	1	(Z)	-	-	-	3241
1,442	267	69	(Z)	53	1,365	2	1,075	5	-	4	2	33
1,212	196	62	(Z)	51	1,144	2	958	5	-	4	1	3312
1	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	3316
4	1	(Z)	-	(Z)	4	-	(Z)	(Z)	-	(Z)	(Z)	3317
1	(Z)	(Z)	-	(Z)	1	-	1	(Z)	-	(Z)	(Z)	3321
2	(Z)	1	-	(Z)	1	-	(Z)	(Z)	-	(Z)	-	3323
3	(Z)	(Z)	-	-	3	-	1	(Z)	-	(Z)	-	3352
2	(Z)	1	-	(Z)	2	-	(Z)	-	-	-	-	3356
1	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	-	3357
1	(Z)	1	-	(Z)	1	-	-	(Z)	-	-	(Z)	3391
8	1	5	-	1	3	(Z)	1	(Z)	-	(Z)	(Z)	34
12	1	9	(Z)	1	2	(Z)	1	1	-	(Z)	(Z)	35
1	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	-	-	3566
1	(Z)	1	(Z)	(Z)	-	-	-	(Z)	-	-	-	3585
26	4	12	(Z)	6	14	(Z)	2	(Z)	-	(Z)	(Z)	36
4	(Z)	3	-	1	1	-	(Z)	-	-	-	-	3632
1	(Z)	1	-	1	(Z)	-	(Z)	-	-	-	-	3633
14	2	7	(Z)	3	6	-	4	(Z)	-	-	(Z)	37
8	1	5	(Z)	1	3	-	1	(Z)	-	-	(Z)	3717
2	(Z)	(Z)	-	(Z)	1	-	1	-	-	-	-	3742
387	111	10	(Z)	1	367	1	188	10	-	3	(Z)	
3	(Z)	1	(Z)	-	1	-	-	(Z)	-	-	-	20
11	3	3	-	(Z)	5	1	3	3	-	3	(Z)	22
66	30	2	(Z)	(Z)	64	-	57	(Z)	-	-	-	26
57	29	-	-	-	57	-	51	-	-	-	-	2621
244	60	1	-	(Z)	237	(Z)	119	6	-	-	(Z)	28
7	(Z)	(Z)	-	-	7	-	4	-	-	-	(Z)	2821
2	(Z)	(Z)	-	-	2	-	1	(Z)	-	(Z)	-	32
24	15	1	(Z)	(Z)	23	-	8	(Z)	-	(Z)	-	33
1	1	1	-	(Z)	1	(Z)	(Z)	(Z)	-	-	-	36
893	329	48	2	9	832	12	348	12	-	4	2	
39	6	12	(Z)	2	22	-	11	4	-	2	(Z)	20
2	1	1	(Z)	(Z)	1	-	-	(Z)	-	-	-	2011
5	1	4	(Z)	-	2	-	(Z)	(Z)	-	-	(Z)	2015
2	(Z)	1	-	(Z)	(Z)	-	-	1	-	-	(Z)	2026
2	1	1	-	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	2033
14	1	(Z)	(Z)	(Z)	12	-	9	2	-	2	(Z)	2037
1	-	1	-	-	(Z)	-	-	(Z)	-	-	-	2082
4	1	(Z)	-	(Z)	3	-	1	(Z)	-	-	-	2094
3	-	2	-	-	1	-	-	1	-	-	-	2097

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

B. WATER USE REGIONS AND

(In billion gallons except

Code	Water use region, major industry group, and industry	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
	Southeast—Continued								
21	Tobacco manufactures	1,588	2	2	2	-	(Z)	-	10
22	Textile mill products	4,867	84	84	29	48	6	(Z)	177
2211	Weaving mills, cotton	1,788	24	24	7	16	2	(Z)	84
2221	Weaving mills, synthetics	783	8	8	5	2	1	-	24
2231	Weaving, finishing mills, wool	356	7	7	2	4	1	-	8
2251	Women's hosiery, except socks	117	1	1	1	-	-	-	3
2261	Finishing plants, cotton	525	25	25	4	20	1	-	30
2262	Finishing plants, synthetics	113	7	7	3	4	1	-	9
2269	Finishing plants, n.e.c	54	2	2	1	(Z)	(Z)	-	2
2272	Tufted carpets and rugs	245	3	3	2	1	1	-	4
2281	Yarn mills, except wool	111	1	1	(Z)	(Z)	(Z)	-	2
2283	Wool yarn mills	133	1	1	(Z)	(Z)	(Z)	-	3
2284	Thread mills	94	2	2	1	(Z)	(Z)	-	3
24	Lumber and wood products	120	4	4	(Z)	(Z)	4	-	14
26	Paper and allied products	1,431	522	395	49	207	140	127	1,459
2611	Pulp mills	181	92	82	(Z)	13	69	10	323
2621	Paper mills, except building	302	143	111	13	68	29	32	309
2631	Paperboard mills	754	280	196	35	121	40	85	798
2661	Building paper and board mills	63	3	2	(Z)	(Z)	2	1	16
28	Chemicals and allied products	1,708	217	175	10	84	82	41	468
2819	Inorganic chemicals, n.e.c	292	28	22	5	8	8	6	96
2861	Gum and wood chemicals	122	21	18	(Z)	5	13	3	35
2871	Fertilizers	207	72	46	(Z)	11	34	26	153
29	Petroleum and coal products	111	5	4	3	(Z)	1	1	63
2911	Petroleum refining	91	5	4	3	(Z)	1	1	63
30	Rubber and plastics products, n.e.c	230	6	6	(Z)	5	1	-	43
32	Stone, clay, and glass products	327	18	9	2	3	3	9	50
3241	Cement, hydraulic	101	10	4	(Z)	2	2	6	19
3295	Minerals, ground or treated	13	1	1	(Z)	(Z)	1	-	3
33	Primary metal industries	854	87	87	17	69	1	-	241
3312	Blast furnaces and steel mills	577	83	83	14	68	1	-	227
3321	Gray iron foundries	194	4	4	2	1	(Z)	-	6
34	Fabricated metal products	262	3	3	2	(Z)	(Z)	-	4
35	Machinery, except electrical	93	1	1	1	-	(Z)	-	11
36	Electrical machinery	607	3	3	2	(Z)	(Z)	-	34
3662	Radio, TV communications equipment	346	1	1	1	(Z)	(Z)	-	21
37	Transportation equipment	1,393	4	4	3	1	(Z)	(Z)	30
	Western Great Lakes	28,897	1,631	1,587	167	1,352	69	44	2,617
20	Food and kindred products	3,434	64	55	25	17	14	8	97
2011	Meat slaughtering plants	392	3	3	2	(Z)	1	(Z)	4
2013	Meat processing plants	195	1	1	1	-	(Z)	-	4
2023	Condensed and evaporated milk	116	5	5	1	2	2	-	5
2026	Fluid milk	133	3	3	2	(Z)	1	-	4
2033	Canned fruits and vegetables	112	3	3	1	(Z)	2	-	4
2043	Cereal preparations	308	3	3	1	-	2	(Z)	4
2071	Confectionery products	219	2	2	1	-	1	(Z)	3
2082	Malt liquors	320	11	11	5	5	1	(Z)	14
2083	Malt	42	2	2	1	(Z)	1	-	5
2096	Shortening and cooking oils	155	4	2	1	1	-	2	13
2099	Food preparations, n.e.c	113	2	2	1	-	2	-	3
26	Paper and allied products	936	183	182	19	141	22	1	456
2621	Paper mills, except building	416	123	123	16	93	13	-	283
2631	Paperboard mills	154	33	32	1	27	4	1	86
2641	Paper coating and glazing	207	10	10	1	6	3	-	44
2661	Building paper and board mills	20	8	8	(Z)	8	(Z)	-	19
28	Chemicals and allied products	1,865	150	149	16	123	10	2	282
2819	Inorganic chemicals, n.e.c	141	27	27	2	22	2	-	39
2834	Pharmaceutical preparations	459	10	10	1	5	4	-	23
2841	Soap and other detergents	262	4	3	1	1	1	1	7
2851	Paints and allied products	180	2	2	1	-	(Z)	-	3
2899	Chemical preparations, n.e.c	72	12	12	1	11	1	-	16

See footnotes at end of table.

and Discharged Water by Discharge Point: 1964—Continued

MAJOR INDUSTRY GROUPS—Continued

value)

Water treated and discharged												Code
Total discharged	Amount treated prior to discharge	Point of discharge										
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)			Transferred to other users	
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
2	(Z)	1	-	1	(Z)	-	(Z)	-	-	-	1	21
75	22	24	2	2	50	7	2	1	-	(Z)	(Z)	22
21	5	6	1	(Z)	15	2	1	(Z)	-	(Z)	(Z)	2211
6	2	3	(Z)	(Z)	3	1	(Z)	(Z)	-	(Z)	(Z)	2221
7	3	1	(Z)	(Z)	6	-	-	(Z)	-	-	-	2231
(Z)	-	(Z)	-	-	(Z)	-	-	-	-	-	-	2251
22	5	6	(Z)	-	16	3	-	(Z)	-	-	(Z)	2261
6	3	1	-	-	5	(Z)	-	(Z)	-	-	-	2262
2	(Z)	1	-	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	2269
3	1	2	-	(Z)	1	-	(Z)	1	-	-	-	2272
1	(Z)	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	-	-	-	2281
1	1	(Z)	-	(Z)	1	-	1	-	-	-	-	2283
2	1	1	(Z)	1	(Z)	-	-	(Z)	-	-	-	2284
2	1	(Z)	-	-	2	-	2	(Z)	-	(Z)	-	24
512	231	1	(Z)	(Z)	508	(Z)	202	4	-	(Z)	(Z)	26
86	45	-	-	-	86	-	-	-	-	-	-	2611
150	77	(Z)	-	-	150	-	80	-	-	-	-	2621
269	109	(Z)	-	(Z)	265	(Z)	121	4	-	-	-	2631
2	1	(Z)	(Z)	-	2	-	2	(Z)	-	-	(Z)	2661
185	32	3	(Z)	1	181	1	95	2	-	1	1	28
27	7	(Z)	(Z)	-	26	-	4	(Z)	-	-	-	2819
19	2	(Z)	-	(Z)	18	1	4	1	-	(Z)	(Z)	2861
51	7	(Z)	-	(Z)	50	-	33	(Z)	-	(Z)	(Z)	2871
5	4	(Z)	-	-	5	2	-	(Z)	-	-	(Z)	29
4	4	-	-	-	4	2	-	(Z)	-	-	(Z)	2911
6	2	(Z)	-	(Z)	6	-	5	-	-	-	-	30
10	5	1	(Z)	(Z)	9	3	2	(Z)	-	(Z)	(Z)	32
3	(Z)	(Z)	(Z)	(Z)	3	-	1	(Z)	-	(Z)	-	3241
1	1	(Z)	-	-	1	-	(Z)	(Z)	-	-	-	3295
44	21	2	(Z)	1	42	-	28	(Z)	-	(Z)	(Z)	33
40	21	1	-	1	39	-	27	(Z)	-	-	(Z)	3312
3	(Z)	1	(Z)	-	2	-	-	(Z)	-	-	(Z)	3321
2	1	1	-	(Z)	1	(Z)	(Z)	(Z)	-	-	(Z)	34
1	(Z)	(Z)	-	(Z)	1	-	(Z)	-	-	-	-	35
3	1	2	-	1	1	(Z)	1	(Z)	-	(Z)	-	36
1	(Z)	1	-	1	(Z)	-	(Z)	-	-	-	-	3662
4	2	1	-	(Z)	3	-	1	(Z)	-	-	(Z)	37
1,568	546	153	1	46	1,382	96	927	8	-	6	24	
54	14	33	(Z)	6	20	(Z)	9	1	-	(Z)	(Z)	20
3	1	2	-	1	1	-	(Z)	(Z)	-	(Z)	(Z)	2011
1	-	1	-	-	-	-	-	-	-	-	(Z)	2013
5	1	1	-	(Z)	3	-	1	(Z)	-	(Z)	(Z)	2023
3	(Z)	2	-	-	(Z)	-	(Z)	(Z)	-	-	-	2026
3	1	2	-	(Z)	1	(Z)	(Z)	1	-	(Z)	(Z)	2033
2	1	2	-	1	(Z)	-	-	-	-	-	-	2043
1	-	1	-	-	-	-	-	-	-	-	-	2071
10	3	4	-	2	5	-	5	(Z)	-	(Z)	(Z)	2082
2	(Z)	1	(Z)	(Z)	(Z)	-	-	-	-	-	-	2083
2	1	1	-	(Z)	1	-	1	-	-	-	(Z)	2096
2	(Z)	2	-	(Z)	(Z)	-	-	(Z)	-	-	(Z)	2099
154	61	7	-	2	146	11	88	1	-	1	(Z)	26
99	36	2	-	1	97	11	51	(Z)	-	(Z)	(Z)	2621
31	16	3	-	1	27	-	21	1	-	1	(Z)	2631
9	6	(Z)	-	(Z)	9	-	5	(Z)	-	-	-	2641
6	(Z)	(Z)	-	-	5	(Z)	3	(Z)	-	-	-	2661
131	45	8	(Z)	4	116	-	77	4	-	4	3	28
16	4	1	-	(Z)	14	-	5	(Z)	-	(Z)	-	2819
11	1	1	-	1	6	-	6	3	-	3	(Z)	2834
2	2	(Z)	-	(Z)	2	-	2	(Z)	-	-	-	2841
2	(Z)	2	-	1	-	-	-	-	-	-	(Z)	2851
12	(Z)	1	-	(Z)	11	-	3	-	-	-	-	2899

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

B. WATER USE REGIONS AND

(In billion gallons except

Code	Water use region, major industry group, and industry	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
	Western Great Lakes—Continued								
29	Petroleum and coal products	1,124	176	143	22	121	1	32	344
2911	Petroleum refining	1,058	171	139	21	117	(Z)	32	339
30	Rubber and plastics products, n.e.c.	356	15	15	3	2	11	-	18
31	Leather and leather products	165	4	4	2	1	(Z)	(Z)	4
32	Stone, clay, and glass products	361	20	19	2	17	1	(Z)	28
3241	Cement, hydraulic	79	11	11	(Z)	11	-	(Z)	12
3293	Gaskets and insulations	51	1	1	(Z)	(Z)	-	-	2
33	Primary metal industries	4,374	941	941	22	915	3	(Z)	1,192
3312	Blast furnaces and steel mills	2,934	909	909	4	905	1	-	1,119
3315	Steel wire drawing, etc	37	2	2	2	-	-	-	2
3321	Gray iron foundries	281	6	6	2	2	1	-	7
3322	Malleable iron foundries	52	1	1	1	-	(Z)	-	2
3323	Steel foundries	126	1	1	1	-	(Z)	-	2
3351	Copper rolling and drawing	122	3	3	1	1	-	-	3
3352	Aluminum rolling and drawing	195	2	2	1	-	1	-	6
3357	Nonferrous wire drawing, etc	124	1	1	1	-	(Z)	-	2
3391	Iron and steel forgings	195	2	2	1	-	(Z)	(Z)	2
34	Fabricated metal products	1,370	10	10	9	(Z)	1	-	17
3429	Hardware, n.e.c.	285	2	2	2	-	-	-	5
3461	Metal stampings	287	2	2	2	-	(Z)	-	2
35	Machinery, except electrical	2,257	21	21	11	8	2	-	30
3519	Internal combustion engines	578	4	4	2	1	(Z)	-	6
3531	Construction machinery	456	2	2	2	-	(Z)	-	3
3566	Power transmission equipment	96	1	1	1	-	(Z)	-	2
36	Electrical machinery	2,187	11	11	10	(Z)	1	(Z)	39
37	Transportation equipment	7,725	30	30	24	4	3	-	99
38	Instruments and related products	386	3	3	3	(Z)	(Z)	-	4
	Upper Mississippi	16,491	543	540	67	347	126	3	1,212
20	Food and kindred products	5,563	119	119	25	38	57	-	204
2011	Meat slaughtering plants	2,590	31	31	10	1	20	-	54
2015	Poultry dressing plants	118	3	3	2	-	1	-	3
2021	Creamery butter	119	3	3	1	(Z)	3	-	4
2023	Condensed and evaporated milk	188	5	5	(Z)	(Z)	5	-	15
2026	Fluid milk	133	2	2	1	(Z)	1	-	3
2033	Canned fruits and vegetables	157	3	3	1	(Z)	1	-	5
2037	Frozen fruits and vegetables	44	1	1	(Z)	-	1	-	2
2046	Wet corn milling	325	30	30	1	25	4	-	44
2082	Malt liquors	356	11	11	5	1	5	-	21
2083	Malt	56	3	3	(Z)	(Z)	3	-	8
2085	Distilled liquor, except brandy	180	11	11	1	5	5	-	15
2092	Soybean oil mills	498	6	6	1	2	3	-	11
2096	Shortening and cooking oils	84	(Z)	(Z)	(Z)	(Z)	-	-	5
26	Paper and allied products	562	122	122	5	103	14	(Z)	254
2621	Paper mills, except building	303	92	92	2	87	3	-	192
2631	Paperboard mills	90	17	17	1	6	9	-	42
2661	Building paper and board mills	34	2	2	(Z)	(Z)	1	-	2
28	Chemicals and allied products	858	62	61	9	28	24	1	156
2819	Inorganic chemicals, n.e.c.	105	24	23	2	12	9	1	60
2834	Pharmaceutical preparations	83	1	1	(Z)	-	(Z)	-	3
29	Petroleum and coal products	664	17	17	1	9	7	-	228
30	Rubber and plastics products, n.e.c.	295	5	5	2	(Z)	2	-	9
3011	Tires and inner tubes	218	4	4	2	-	2	-	7
32	Stone, clay, and glass products	536	49	49	2	42	5	-	56
3281	Cut stone and stone products	15	2	2	1	1	(Z)	-	2
33	Primary metal industries	769	113	113	3	104	6	-	202
3312	Blast furnaces and steel mills	411	95	95	1	90	4	-	176
3323	Steel foundries	50	1	1	1	-	(Z)	-	2
34	Fabricated metal products	437	5	5	3	(Z)	2	-	10
3429	Hardware, n.e.c.	78	2	2	1	(Z)	1	-	5
3452	Bolts, nuts, rivets, and washers	68	1	1	1	(Z)	1	-	2

See footnotes at end of table.

and Discharged Water by Discharge Point: 1964—Continued

MAJOR INDUSTRY GROUPS—Continued

value)

Water treated and discharged												Code
Total discharged	Amount treated prior to discharge	Point of discharge									Transferred to other users	
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)				
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
192	104	21	-	21	150	79	37	(Z)	-	(Z)	20	29
188	103	21	-	20	147	79	34	(Z)	-	(Z)	20	2911
15	1	3	-	1	12	-	-	(Z)	-	-	-	30
4	2	2	-	-	1	1	-	(Z)	-	-	(Z)	31
18	3	2	(Z)	1	16	(Z)	2	(Z)	-	(Z)	(Z)	32
11	(Z)	(Z)	-	-	11	-	2	(Z)	-	(Z)	-	3241
(Z)	(Z)	(Z)	(Z)	-	(Z)	-	-	-	-	-	-	3293
926	308	25	-	3	900	3	708	1	-	(Z)	(Z)	33
897	298	7	-	2	889	-	708	(Z)	-	(Z)	(Z)	3312
2	(Z)	2	-	(Z)	-	-	-	-	-	-	-	3315
5	3	2	-	(Z)	3	3	-	(Z)	-	-	(Z)	3321
1	-	1	-	-	-	-	-	(Z)	-	-	-	3322
1	(Z)	1	-	-	1	-	(Z)	(Z)	-	-	-	3323
3	(Z)	3	-	-	(Z)	(Z)	-	(Z)	-	-	-	3351
2	(Z)	1	-	(Z)	(Z)	(Z)	(Z)	(Z)	-	(Z)	-	3352
1	(Z)	1	-	1	(Z)	-	-	-	-	-	-	3357
1	(Z)	1	-	(Z)	(Z)	(Z)	(Z)	(Z)	-	-	(Z)	3391
10	1	8	-	1	2	(Z)	1	(Z)	-	(Z)	(Z)	34
2	1	1	-	(Z)	1	-	1	-	-	-	-	3429
2	(Z)	2	-	(Z)	(Z)	-	-	(Z)	-	-	(Z)	3461
19	1	9	-	1	9	(Z)	1	(Z)	-	(Z)	(Z)	35
3	1	2	-	(Z)	1	(Z)	1	(Z)	-	-	-	3519
2	(Z)	2	-	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	(Z)	3531
1	(Z)	(Z)	-	(Z)	1	-	(Z)	-	-	-	-	3566
10	1	8	(Z)	1	2	-	(Z)	(Z)	-	-	(Z)	36
29	4	23	-	5	5	(Z)	2	(Z)	-	(Z)	(Z)	37
3	(Z)	3	-	(Z)	(Z)	-	-	(Z)	-	(Z)	-	38
494	173	104	4	18	384	34	169	6	-	2	(Z)	
110	20	47	2	11	60	1	27	3	-	1	(Z)	20
29	13	19	2	7	9	(Z)	6	(Z)	-	(Z)	-	2011
3	(Z)	2	-	(Z)	1	-	-	(Z)	-	(Z)	(Z)	2015
3	(Z)	1	(Z)	(Z)	2	-	(Z)	(Z)	-	(Z)	(Z)	2021
5	1	3	-	1	3	-	(Z)	(Z)	-	-	(Z)	2023
2	(Z)	1	(Z)	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	2026
2	2	(Z)	-	(Z)	1	-	(Z)	1	-	(Z)	-	2033
1	(Z)	1	(Z)	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	-	2037
28	(Z)	5	-	2	23	-	16	(Z)	-	-	-	2046
9	(Z)	8	-	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	(Z)	2082
3	1	1	-	(Z)	2	-	1	(Z)	-	-	-	2083
11	-	2	-	-	10	-	-	-	-	-	-	2085
5	1	1	(Z)	(Z)	4	(Z)	(Z)	(Z)	-	-	(Z)	2092
(Z)	(Z)	(Z)	-	(Z)	(Z)	-	-	-	-	-	-	2096
110	35	8	-	(Z)	101	2	63	(Z)	-	(Z)	(Z)	26
82	24	1	-	(Z)	81	1	62	(Z)	-	(Z)	(Z)	2621
16	8	5	-	-	11	2	-	(Z)	-	-	-	2631
2	1	1	-	(Z)	1	(Z)	(Z)	-	-	-	-	2661
58	15	15	-	2	42	-	6	1	-	-	(Z)	28
21	12	1	-	1	19	-	(Z)	1	-	-	(Z)	2819
(Z)	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	2834
11	8	3	2	-	8	(Z)	1	(Z)	-	-	-	29
4	(Z)	2	(Z)	1	3	-	(Z)	(Z)	-	-	(Z)	30
3	(Z)	1	-	-	3	-	(Z)	-	-	-	-	3011
46	2	2	(Z)	(Z)	44	1	7	(Z)	-	(Z)	(Z)	32
2	1	(Z)	-	-	1	1	-	-	-	-	-	3281
100	84	7	-	2	92	25	44	1	-	(Z)	-	33
81	72	1	-	(Z)	79	25	32	1	-	(Z)	-	3312
1	(Z)	1	-	-	(Z)	-	-	(Z)	-	-	-	3323
5	(Z)	4	-	1	1	-	1	(Z)	-	(Z)	(Z)	34
1	(Z)	1	-	(Z)	(Z)	-	(Z)	-	-	-	-	3429
1	(Z)	1	-	(Z)	(Z)	-	(Z)	-	-	-	-	3452

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

B. WATER USE REGIONS AND

(In billion gallons except

Code	Water use region, major industry group, and industry	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
	Upper Mississippi—Continued								
35	Machinery, except electrical	2,410	35	33	7	23	3	2	56
36	Electrical machinery	1,012	6	6	4	-	2	-	10
3621	Motors and generators	65	2	2	1	-	1	-	3
37	Transportation equipment	2,864	5	5	4	(Z)	1	-	20
3717	Motor vehicles and parts	1,998	2	2	2	(Z)	(Z)	-	15
38	Instruments and related products	245	2	2	1	(Z)	1	-	2
	Lower Mississippi	3,639	585	572	6	479	85	14	1,126
20	Food and kindred products	980	54	52	2	35	15	3	64
2011	Meat slaughtering plants	103	1	1	(Z)	-	1	-	2
2061	Raw cane sugar	92	18	18	(Z)	13	4	-	21
2062	Cane sugar refining	265	21	18	(Z)	18	-	2	21
22	Textile mill products	60	2	2	(Z)	-	2	-	15
24	Lumber and wood products	23	2	2	(Z)	(Z)	2	-	3
26	Paper and allied products	151	32	32	(Z)	7	25	-	87
2621	Paper mills, except building	44	6	6	(Z)	2	4	-	13
28	Chemicals and allied products	621	202	200	2	175	23	2	455
2818	Organic chemicals, n.e.c.	307	136	136	1	129	7	-	301
2819	Inorganic chemicals, n.e.c.	133	29	26	1	17	8	2	77
29	Petroleum and coal products	1,008	122	115	(Z)	103	12	7	310
2911	Petroleum refining	(D)	121	114	(Z)	103	12	7	308
30	Rubber and plastics products, n.e.c.	211	4	4	1	-	3	-	7
32	Stone, clay, and glass products	49	3	1	1	(Z)	(Z)	2	5
	Missouri	6,695	144	143	33	64	45	2	440
20	Food and kindred products	2,784	68	67	22	27	18	(Z)	112
2011	Meat slaughtering plants	1,847	24	24	16	1	6	(Z)	36
2021	Creamery butter	52	2	2	(Z)	-	1	-	2
2026	Fluid milk	122	2	2	1	(Z)	1	(Z)	3
2063	Beet sugar	204	23	23	1	20	2	-	33
2092	Soybean oil mills	66	1	1	(Z)	-	1	-	2
2097	Manufactured ice	2	(Z)	(Z)	(Z)	-	(Z)	-	13
24	Lumber and wood products	2	3	3	-	3	(Z)	-	9
26	Paper and allied products	9	1	1	(Z)	1	(Z)	-	5
2631	Paperboard mills	6	1	1	(Z)	1	(Z)	-	5
28	Chemicals and allied products	340	21	20	2	4	15	(Z)	72
2813	Industrial gases	4	2	2	(Z)	-	2	(Z)	5
2819	Inorganic chemicals, n.e.c.	57	12	12	(Z)	3	8	-	53
29	Petroleum and coal products	600	25	25	2	19	4	(Z)	172
2911	Petroleum refining	594	25	25	2	19	4	(Z)	172
30	Rubber and plastics products, n.e.c.	263	3	3	1	-	2	-	14
32	Stone, clay, and glass products	121	5	5	(Z)	1	4	-	6
3241	Cement, hydraulic	40	1	1	(Z)	(Z)	1	-	2
33	Primary metal industries	363	14	14	2	12	(Z)	1	23
36	Electrical machinery	229	1	1	1	-	(Z)	-	2
	Arkansas White and Red	4,741	216	213	41	92	80	3	1,850
20	Food and kindred products	839	12	12	6	2	4	1	16
2011	Meat slaughtering plants	244	2	2	1	(Z)	1	-	3
2015	Poultry dressing plants	128	2	2	2	-	(Z)	-	2
26	Paper and allied products	439	74	74	1	38	36	-	426
2621	Paper mills, except building	132	38	38	-	25	13	-	310
28	Chemicals and allied products	435	64	62	18	23	21	2	746
2813	Industrial gases	7	1	1	-	-	1	-	17
2819	Inorganic chemicals, n.e.c.	177	27	27	(Z)	23	4	-	135
2899	Chemical preparations, n.e.c.	12	4	2	(Z)	-	2	2	5

See footnotes at end of table.

and Discharged Water by Discharge Point: 1964—Continued

MAJOR INDUSTRY GROUPS—Continued

value)

Water treated and discharged												Code
Total discharged	Amount treated prior to discharge	Point of discharge										
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)			Transferred to other users	
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
34	6	7	-	1	27	4	20	(Z)	-	(Z)	(Z)	35
6	2	4	(Z)	1	2	1	-	-	-	-	-	36
2	1	1	-	-	1	1	-	-	-	-	-	3621
5	1	3	(Z)	-	1	(Z)	-	(Z)	-	-	(Z)	37
2	(Z)	1	(Z)	-	1	(Z)	-	-	-	-	(Z)	3717
2	(Z)	1	-	(Z)	(Z)	(Z)	-	(Z)	-	-	-	38
572	136	20	(Z)	3	545	20	173	3	-	1	3	
51	12	8	-	1	42	-	4	1	-	1	(Z)	20
1	(Z)	1	-	(Z)	(Z)	-	-	(Z)	-	-	-	2011
16	8	(Z)	-	(Z)	16	-	3	(Z)	-	(Z)	(Z)	2061
20	2	(Z)	-	-	19	-	2	1	-	1	-	2062
2	(Z)	1	-	(Z)	(Z)	(Z)	(Z)	-	-	-	-	22
1	(Z)	(Z)	-	(Z)	1	-	-	(Z)	-	(Z)	-	24
31	3	4	-	(Z)	27	-	4	(Z)	-	-	-	26
6	3	(Z)	-	(Z)	6	-	4	-	-	-	-	2621
197	19	3	(Z)	1	190	6	145	2	-	(Z)	2	28
134	13	1	-	1	131	6	120	2	-	(Z)	(Z)	2818
27	3	(Z)	-	-	26	(Z)	21	(Z)	-	-	1	2819
120	101	1	-	-	119	14	18	(Z)	-	(Z)	-	29
119	101	(Z)	-	-	119	14	18	(Z)	-	(Z)	-	2911
4	-	1	-	-	3	-	-	(Z)	-	-	(Z)	30
2	(Z)	1	(Z)	-	1	-	(Z)	(Z)	-	-	-	32
128	62	36	10	4	90	2	12	2	-	1	(Z)	
65	36	27	10	3	37	-	8	1	-	(Z)	(Z)	20
23	16	19	9	2	3	-	1	(Z)	-	(Z)	-	2011
2	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	2021
1	(Z)	1	(Z)	(Z)	(Z)	-	-	(Z)	-	-	-	2026
23	18	-	-	-	23	-	6	-	-	-	-	2063
1	(Z)	(Z)	-	-	1	-	(Z)	(Z)	-	-	-	2092
(Z)	-	(Z)	-	-	(Z)	-	-	(Z)	-	-	-	2097
2	2	(Z)	-	-	2	-	-	-	-	-	-	24
1	(Z)	(Z)	-	-	1	-	(Z)	-	-	-	-	26
1	(Z)	(Z)	-	-	1	-	(Z)	-	-	-	-	2631
15	2	2	-	(Z)	13	-	1	(Z)	-	(Z)	-	28
1	-	1	-	-	-	-	-	(Z)	-	-	-	2813
10	(Z)	(Z)	-	(Z)	10	-	(Z)	(Z)	-	-	-	2819
21	20	(Z)	-	(Z)	20	2	(Z)	1	-	(Z)	(Z)	29
21	20	(Z)	-	(Z)	20	2	(Z)	1	-	(Z)	(Z)	2911
3	(Z)	1	(Z)	-	2	-	-	-	-	-	-	30
3	(Z)	2	-	(Z)	1	-	-	(Z)	-	-	-	32
1	(Z)	(Z)	-	-	1	-	-	(Z)	-	-	-	3241
14	(Z)	(Z)	-	(Z)	14	-	1	(Z)	-	(Z)	-	33
1	(Z)	(Z)	-	(Z)	(Z)	(Z)	(Z)	(Z)	-	(Z)	-	36
174	88	14	1	3	155	4	30	3	-	(Z)	2	
10	2	6	(Z)	(Z)	3	-	1	(Z)	-	(Z)	(Z)	20
2	1	1	(Z)	(Z)	1	-	1	(Z)	-	-	(Z)	2011
2	(Z)	1	-	(Z)	(Z)	-	-	(Z)	-	(Z)	(Z)	2015
67	66	2	-	1	63	-	1	(Z)	-	(Z)	2	26
37	37	(Z)	-	-	37	-	-	-	-	-	-	2621
48	4	1	(Z)	(Z)	46	(Z)	2	1	-	(Z)	(Z)	28
(Z)	(Z)	(Z)	-	-	(Z)	-	-	(Z)	-	-	-	2813
22	2	(Z)	-	(Z)	21	(Z)	1	(Z)	-	(Z)	(Z)	2819
3	(Z)	(Z)	-	(Z)	3	-	1	(Z)	-	-	-	2899

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

B. WATER USE REGIONS AND

(In billion gallons except

Code	Water use region, major industry group, and industry	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
	Arkansas White and Red—Continued								
29	Petroleum and coal products	1,467	28	27	10	2	15	1	549
2911	Petroleum refining	1,448	27	26	10	2	15	1	548
32	Stone, clay, and glass products	141	3	3	1	2	1	(Z)	8
3241	Cement, hydraulic	52	2	2	(Z)	1	1	-	3
36	Electrical machinery	167	1	1	1	-	(Z)	-	2
37	Transportation equipment	546	2	2	2	-	(Z)	-	7
	Western Gulf	11,264	1,825	376	108	174	94	1,450	5,336
20	Food and kindred products	1,089	14	13	6	3	4	(Z)	37
2011	Meat slaughtering plants	290	2	2	1	-	1	-	9
2082	Malt liquors	84	1	1	(Z)	-	1	-	5
24	Lumber and wood products	37	8	6	(Z)	5	1	1	19
26	Paper and allied products	86	29	24	9	-	15	5	45
28	Chemicals and allied products	2,616	1,218	157	31	89	37	1,061	2,291
2812	Alkalies and chlorine	111	200	15	1	-	14	186	242
2819	Inorganic chemicals, n.e.c	194	9	7	4	1	2	2	135
2822	Synthetic rubber	327	7	5	3	(Z)	2	1	85
2895	Carbon black	46	1	1	(Z)	-	1	-	3
2899	Chemical preparations, n.e.c	68	1	1	1	(Z)	(Z)	(Z)	5
29	Petroleum and coal products	4,757	383	113	55	26	31	271	2,491
2911	Petroleum refining	4,741	383	112	55	26	31	271	2,491
32	Stone, clay, and glass products	172	5	4	1	1	2	2	12
3241	Cement, hydraulic	87	4	2	(Z)	(Z)	2	2	6
33	Primary metal industries	546	151	41	2	38	1	110	338
35	Machinery, except electrical	208	1	1	1	(Z)	1	-	27
36	Electrical machinery	275	1	1	1	-	-	-	14
37	Transportation equipment	1,191	14	14	2	11	1	(Z)	57
	Colorado Basin	985	23	21	7	3	11	2	148
20	Food and kindred products	83	3	3	(Z)	2	(Z)	-	4
28	Chemicals and allied products	44	2	2	2	-	(Z)	-	11
29	Petroleum and coal products	37	1	1	-	1	(Z)	-	10
2911	Petroleum refining	37	1	1	-	1	(Z)	-	10
33	Primary metal industries	404	11	10	4	-	6	2	104
35	Machinery, except electrical	135	1	1	(Z)	-	(Z)	-	4
36	Electrical machinery	96	1	1	1	-	-	-	10
	Great Basin	1,146	33	25	4	12	9	9	182
20	Food and kindred products	145	3	3	2	1	1	(Z)	5
29	Petroleum and coal products	123	2	2	1	-	1	-	19
2911	Petroleum refining	123	2	2	1	-	1	-	19
	California	15,710	347	184	72	46	66	163	1,278
20	Food and kindred products	3,270	61	47	15	1	31	14	102
2011	Meat slaughtering plants	322	1	1	1	-	(Z)	(Z)	2
2023	Condensed and evaporated milk	47	2	2	(Z)	-	2	-	2
2026	Fluid milk	325	2	2	1	-	1	-	3
2032	Canned specialties	158	2	2	(Z)	-	2	(Z)	2
2033	Canned fruits and vegetables	620	13	12	5	-	7	1	21
2034	Dehydrated foods products	134	2	2	(Z)	-	2	-	4
2037	Frozen fruits and vegetables	103	2	2	1	-	1	-	5
2063	Beet sugar	129	10	8	-	1	7	2	19
2082	Malt liquors	191	3	3	2	-	1	-	6
2084	Wines and brandy	130	4	4	(Z)	(Z)	3	-	5
2096	Shortening and cooking oils	73	1	1	(Z)	-	1	(Z)	5
24	Lumber and wood products	208	32	32	1	25	5	1	40
2421	Sawmills and planing mills	157	30	30	1	25	3	(Z)	37

See footnotes at end of table.

and Discharged Water by Discharge Point: 1964—Continued

MAJOR INDUSTRY GROUPS—Continued

value)

Water treated and discharged												Code
Total discharged	Amount treated prior to discharge	Point of discharge									Transferred to other users	
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)				
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
15	13	(Z)	-	(Z)	14	3	2	(Z)	-	(Z)	(Z)	29
15	13	(Z)	-	(Z)	14	3	2	(Z)	-	(Z)	(Z)	2911
2	(Z)	(Z)	(Z)	(Z)	1	-	(Z)	(Z)	-	-	(Z)	32
(Z)	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	(Z)	-	-	-	3241
1	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	(Z)	36
2	(Z)	1	-	(Z)	1	(Z)	(Z)	(Z)	-	(Z)	-	37
1,700	384	14	1	5	1,582	(Z)	229	2	-	1	102	
7	2	5	(Z)	1	1	(Z)	(Z)	(Z)	-	(Z)	(Z)	20
2	1	1	-	1	(Z)	-	-	(Z)	-	-	-	2011
1	(Z)	1	-	1	(Z)	-	(Z)	-	-	-	-	2082
1	1	(Z)	-	(Z)	1	-	1	(Z)	-	-	-	24
28	22	(Z)	-	-	28	-	-	-	-	-	-	26
1,171	25	4	(Z)	2	1,092	(Z)	161	(Z)	-	(Z)	75	28
199	(Z)	-	-	-	199	-	43	-	-	-	-	2812
5	2	(Z)	-	(Z)	5	-	4	(Z)	-	(Z)	(Z)	2819
5	5	1	-	-	2	-	-	-	-	-	1	2822
(Z)	(Z)	(Z)	(Z)	-	(Z)	-	-	(Z)	-	-	-	2895
1	(Z)	(Z)	-	-	1	(Z)	1	(Z)	-	-	-	2899
334	304	1	-	(Z)	326	-	55	1	-	(Z)	7	29
334	304	1	-	(Z)	326	-	55	1	-	(Z)	7	2911
3	(Z)	(Z)	(Z)	-	3	(Z)	(Z)	(Z)	-	(Z)	(Z)	32
2	(Z)	(Z)	(Z)	-	2	-	(Z)	(Z)	-	(Z)	(Z)	3241
139	27	1	(Z)	(Z)	118	(Z)	(Z)	(Z)	-	(Z)	20	33
1	(Z)	(Z)	-	(Z)	1	-	-	(Z)	-	-	-	35
1	1	1	-	1	(Z)	-	-	(Z)	-	(Z)	-	36
14	1	1	(Z)	1	12	-	11	(Z)	-	(Z)	(Z)	37
16	5	4	(Z)	1	9	-	(Z)	1	-	(Z)	3	
2	2	(Z)	-	(Z)	2	-	-	(Z)	-	-	(Z)	20
2	2	2	-	-	(Z)	-	-	(Z)	-	-	-	28
(Z)	(Z)	-	-	-	(Z)	-	-	(Z)	-	-	-	29
(Z)	(Z)	-	-	-	(Z)	-	-	(Z)	-	-	-	2911
7	1	1	(Z)	-	3	-	(Z)	1	-	-	2	33
1	(Z)	(Z)	-	(Z)	-	-	-	(Z)	-	(Z)	(Z)	35
(Z)	(Z)	(Z)	-	(Z)	-	-	-	(Z)	-	(Z)	-	36
29	17	2	(Z)	(Z)	20	1	1	2	-	(Z)	5	
3	2	1	(Z)	(Z)	2	1	(Z)	(Z)	-	-	(Z)	20
2	2	1	-	-	1	-	-	-	-	-	-	29
2	2	1	-	-	1	-	-	-	-	-	-	2911
318	190	48	(Z)	12	231	106	34	19	-	12	20	
54	13	25	(Z)	3	22	-	3	5	-	1	2	20
1	(Z)	1	(Z)	(Z)	(Z)	-	-	(Z)	-	-	(Z)	2011
2	-	2	-	-	-	-	-	-	-	-	(Z)	2023
2	(Z)	2	-	1	-	-	-	(Z)	-	-	-	2026
2	-	2	-	-	(Z)	-	-	-	-	-	-	2032
12	5	9	-	1	2	-	(Z)	1	-	(Z)	(Z)	2033
2	1	1	-	(Z)	1	-	1	(Z)	-	-	-	2034
2	2	2	-	1	(Z)	-	(Z)	(Z)	-	(Z)	(Z)	2037
8	2	(Z)	-	-	6	-	1	1	-	(Z)	1	2063
2	(Z)	2	-	(Z)	-	-	-	(Z)	-	-	(Z)	2082
4	(Z)	1	-	-	1	-	(Z)	2	-	(Z)	(Z)	2084
1	(Z)	1	-	-	-	-	-	-	-	-	-	2096
29	13	(Z)	(Z)	(Z)	28	-	7	(Z)	-	(Z)	1	24
28	13	(Z)	(Z)	(Z)	26	-	6	(Z)	-	(Z)	1	2421

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

B. WATER USE REGIONS AND

(In billion gallons except

Code	Water use region, major industry group, and industry	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
	California—Continued								
26	Paper and allied products	220	28	22	7	9	7	6	126
2621	Paper mills, except building	56	7	5	2	2	1	2	46
2631	Paperboard mills	97	17	14	3	7	4	3	71
2661	Building paper and board mills	5	1	1	(Z)	-	(Z)	-	2
28	Chemicals and allied products	645	36	23	9	9	4	13	131
2818	Organic chemicals, n.e.c	116	3	3	2	-	(Z)	(Z)	38
2819	Inorganic chemicals, n.e.c	118	15	4	3	-	1	11	43
2821	Plastics materials and resins	48	1	1	1	(Z)	(Z)	-	17
29	Petroleum and coal products	1,890	140	29	20	1	9	110	569
2911	Petroleum refining	1,879	139	29	20	1	8	110	568
30	Rubber and plastics products, n.e.c	210	1	1	(Z)	-	1	(Z)	12
3011	Tires and inner tubes	201	1	1	(Z)	-	1	-	11
32	Stone, clay, and glass products	443	21	9	2	1	6	13	32
3241	Cement, hydraulic	141	7	5	1	1	4	3	9
33	Primary metal industries	709	14	8	6	-	2	6	155
34	Fabricated metal products	246	1	1	1	-	(Z)	-	2
35	Machinery, except electrical	188	1	1	1	-	(Z)	-	4
36	Electrical machinery	1,361	2	2	2	-	(Z)	-	11
3662	Radio, TV communications equipment	954	1	1	(Z)	-	(Z)	-	4
37	Transportation equipment	3,996	7	7	6	-	1	1	72
3721	Aircraft	1,507	3	2	2	-	(Z)	(Z)	11
3729	Aircraft equipment, n.e.c	377	1	1	1	-	-	-	5
	Pacific Northwest	5,344	581	539	141	296	102	42	1,415
20	Food and kindred products	949	39	39	11	7	21	(Z)	53
2011	Meat slaughtering plants	182	6	6	2	-	5	-	7
2021	Creamery butter	32	2	2	(Z)	(Z)	1	-	2
2026	Fluid milk	102	2	2	1	(Z)	1	-	2
2033	Canned fruits and vegetables	131	4	4	4	-	1	-	5
2037	Frozen fruits and vegetables	135	9	9	2	2	5	-	14
2082	Malt liquors	90	1	1	(Z)	-	1	-	2
24	Lumber and wood products	607	95	73	4	62	7	23	118
2421	Sawmills and planing mills	315	70	52	2	43	7	18	86
26	Paper and allied products	757	337	330	113	179	38	7	989
2611	Pulp mills	150	92	86	59	26	1	6	319
2621	Paper mills, except building	359	162	162	52	81	29	1	373
2631	Paperboard mills	229	80	80	3	71	7	-	294
28	Chemicals and allied products	378	54	46	4	25	17	8	117
2819	Inorganic chemicals, n.e.c	287	31	31	1	18	12	-	79
29	Petroleum and coal products	247	3	3	3	1	-	(Z)	54
2911	Petroleum refining	247	3	3	3	1	-	(Z)	54
32	Stone, clay, and glass products	60	4	4	(Z)	2	2	-	4
33	Primary metal industries	679	43	39	2	21	17	4	60
3313	Electrometallurgical products	24	2	2	-	1	1	-	6
3334	Primary aluminum	315	18	18	-	7	11	-	23
37	Transportation equipment	1,543	4	4	4	-	(Z)	(Z)	18
	Cumberland	464	20	20	2	18	(Z)	-	41
28	Chemicals and allied products	163	12	12	(Z)	12	-	-	21
	Alaska	68	34	34	(Z)	30	4	-	95
	Hawaii	330	112	90	11	45	34	22	245
20	Food and kindred products	282	110	89	10	45	34	21	229
2033	Canned fruits and vegetables	124	4	3	1	-	2	1	5
2061	Raw cane sugar	122	105	85	9	45	31	19	223

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries whether or not separate figures are shown for the individual industries.

- Represents zero.
(D) Withheld to avoid disclosing figures for individual companies.
(Z) Less than 500 million gallons. n.e.c. Not elsewhere classified.
[1]Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 23 and 27. In 1959, such establishments had total water intake of 23 billion gallons, gross water use of 58 billion gallon, discharge of 22 billion gallons of water, and 152 thousand employees. Data for Major Group 19 is included in all total figures but was considered too insignificant to publish.

and Discharged Water by Discharge Point: 1964—Continued

MAJOR INDUSTRY GROUPS—Continued

value)

Water treated and discharged												Code
Total discharged	Amount treated prior to discharge	Point of discharge									Transferred to other users	
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)				
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
24	17	6	-	2	17	-	2	(Z)	-	(Z)	-	26
7	6	1	-	1	6	-	-	(Z)	-	-	-	2621
15	10	4	-	1	11	-	2	-	-	-	-	2631
(Z)	(Z)	(Z)	-	(Z)	-	-	-	-	-	-	-	2661
31	14	2	(Z)	1	27	1	6	(Z)	-	(Z)	2	28
2	1	1	-	-	1	(Z)	(Z)	-	-	-	-	2818
14	1	(Z)	-	(Z)	12	-	6	(Z)	-	(Z)	1	2819
1	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	-	-	(Z)	2821
138	110	1	-	(Z)	122	105	15	(Z)	-	-	14	29
138	110	1	-	(Z)	122	105	15	(Z)	-	-	14	2911
1	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	30
1	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	3011
17	11	1	(Z)	(Z)	4	(Z)	(Z)	12	-	10	1	32
4	1	(Z)	(Z)	(Z)	3	-	(Z)	(Z)	-	-	1	3241
10	9	2	-	1	8	-	(Z)	(Z)	-	(Z)	-	33
1	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	(Z)	34
1	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	-	(Z)	(Z)	35
2	(Z)	2	-	1	(Z)	-	(Z)	(Z)	-	(Z)	-	36
1	(Z)	1	-	(Z)	-	-	-	(Z)	-	(Z)	-	3662
6	2	4	-	3	1	-	(Z)	1	-	(Z)	(Z)	37
2	(Z)	2	-	1	(Z)	-	(Z)	(Z)	-	(Z)	-	3721
1	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	(Z)	3729
541	160	36	(Z)	10	481	13	285	20	-	12	3	
37	17	13	-	2	20	6	4	4	-	(Z)	1	20
5	1	2	-	(Z)	3	-	3	(Z)	-	-	-	2011
1	(Z)	1	-	(Z)	(Z)	-	-	(Z)	-	-	-	2021
2	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	2026
4	1	3	-	-	(Z)	-	-	(Z)	-	-	(Z)	2033
9	5	1	-	(Z)	5	-	(Z)	2	-	(Z)	(Z)	2037
1	(Z)	1	-	(Z)	(Z)	-	-	(Z)	-	-	-	2082
83	14	2	(Z)	1	79	2	28	1	-	(Z)	(Z)	24
59	14	1	(Z)	(Z)	58	2	27	1	-	(Z)	(Z)	2421
325	88	14	-	1	306	4	229	5	-	3	1	26
91	23	1	-	1	89	-	78	-	-	-	(Z)	2611
155	43	12	-	(Z)	142	-	84	1	-	-	(Z)	2621
78	21	(Z)	-	(Z)	74	3	67	4	-	3	-	2631
45	18	6	-	5	30	(Z)	4	9	-	8	1	28
23	11	5	-	5	10	-	1	8	-	8	1	2819
2	2	(Z)	-	(Z)	2	(Z)	2	-	-	-	-	29
2	2	(Z)	-	(Z)	2	(Z)	2	-	-	-	-	2911
4	1	(Z)	-	(Z)	2	-	(Z)	1	-	-	-	32
40	20	(Z)	(Z)	-	38	2	17	1	-	-	1	33
2	2	(Z)	(Z)	-	1	-	-	1	-	-	-	3313
18	6	(Z)	(Z)	-	17	-	10	(Z)	-	-	(Z)	3334
4	(Z)	1	-	(Z)	3	-	-	(Z)	-	(Z)	(Z)	37
19	16	1	(Z)	(Z)	18	1	6	(Z)	-	-	-	
12	12	(Z)	(Z)	-	12	1	-	-	-	-	-	28
34	4	4	-	-	30	-	-	(Z)	-	-	-	
102	15	2	1	(Z)	37	-	12	53	-	20	10	
100	13	2	1	(Z)	35	-	10	53	-	20	10	20
4	2	1	1	(Z)	3	-	(Z)	(Z)	-	-	-	2033
96	11	1	-	(Z))	32	-	10	53	-	20	10	2061

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

C. STATES AND SELECTED

(In billion gallons except

Code	States and selected industry groups	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
	United States, total[1]	213,400	14,045	11,209	1,383	8,466	1,360	2,836	30,599
	New England division	10,258	532	407	80	305	21	125	912
	Maine	688	173	160	5	154	1	13	393
20	Food and kindred products	84	2	2	1	1	(Z)	-	3
22	Textile mill products	92	4	4	1	3	-	-	4
26	Paper and allied products	399	154	152	3	148	1	2	369
	New Hampshire	308	36	36	1	34	(Z)	(Z)	79
22	Textile mill products	39	4	4	(Z)	3	-	-	4
36	Electrical machinery	64	1	1	(Z)	(Z)	(Z)	-	1
	Vermont	194	7	7	1	6	(Z)	-	9
20	Food and kindred products	35	1	1	(Z)	(Z)	(Z)	-	1
26	Paper and allied products	22	5	5	(Z)	5	-	-	6
	Massachusetts	4,576	154	113	39	63	11	41	207
20	Food and kindred products	399	12	3	2	1	(Z)	8	14
22	Textile mill products	327	12	11	3	7	1	1	13
26	Paper and allied products	358	47	47	6	37	5	-	65
28	Chemicals and allied products	320	14	10	7	1	2	4	24
30	Rubber and plastics products, n.e.c.	307	12	11	3	8	1	1	17
31	Leather and leather products	55	1	1	(Z)	(Z)	1	(Z)	2
33	Primary metal industries	203	11	11	9	2	(Z)	-	12
34	Fabricated metal products	258	4	2	2	-	(Z)	1	5
36	Electrical machinery	1,005	5	5	3	2	(Z)	-	7
37	Transportation equipment	295	1	1	1	-	-	(Z)	2
38	Instruments and related products	283	5	5	1	4	(Z)	-	7
39	Miscellaneous manufacturing	134	1	1	1	-	(Z)	-	2
	Rhode Island	530	17	14	6	6	2	3	19
20	Food and kindred products	33	2	2	1	(Z)	1	(Z)	2
22	Textile mill products	77	4	4	1	4	(Z)	-	4
30	Rubber and plastics products, n.e.c.	68	1	1	1	(Z)	(Z)	-	1
33	Primary metal industries	122	5	3	1	2	(Z)	2	5
	Connecticut	3,962	145	77	28	42	7	68	205
20	Food and kindred products	102	1	1	(Z)	-	(Z)	-	1
22	Textile mill products	87	4	4	1	3	-	(Z)	4
26	Paper and allied products	62	9	8	1	6	1	1	18
28	Chemicals and allied products	221	30	6	2	2	2	24	37
30	Rubber and plastics products, n.e.c.	243	8	8	1	7	1	-	28
32	Stone, clay, and glass products	52	1	1	1	(Z)	(Z)	(Z)	1
33	Primary metal industries	576	26	23	7	15	1	3	40
34	Fabricated metal products	212	2	2	2	(Z)	(Z)	-	4
35	Machinery, except electrical	417	2	2	2	(Z)	(Z)	-	4
36	Electrical machinery	290	3	3	2	(Z)	(Z)	-	3
38	Instruments and related products	94	2	2	2	(Z)	(Z)	-	2
39	Miscellaneous manufacturing	124	5	5	1	4	(Z)	-	5
	Middle Atlantic division	38,443	2,596	2,285	185	1,977	121	312	4,771
	New York	13,462	629	560	57	470	34	69	1,054
20	Food and kindred products	2,012	34	20	12	4	4	14	70
22	Textile mill products	119	5	5	1	4	(Z)	(Z)	52
26	Paper and allied products	381	133	132	2	130	(Z)	(Z)	205
28	Chemicals and allied products	1,341	134	93	9	71	13	41	166
30	Rubber and plastics products, n.e.c.	141	5	4	2	2	1	(Z)	8
31	Leather and leather products	48	4	4	1	1	2	-	4
32	Stone, clay, and glass products	354	12	12	3	7	2	-	13
33	Primary metal industries	1,646	213	212	9	201	2	1	351
34	Fabricated metal products	175	2	2	2	(Z)	(Z)	-	3
36	Electrical machinery	1,856	11	11	5	3	3	-	18
37	Transportation equipment	2,403	7	6	3	-	3	1	36
38	Instruments and related products	1,231	13	13	3	-	2	(Z)	50
39	Miscellaneous manufacturing	106	1	1	1	(Z)	(Z)	-	2
	New Jersey	10,189	416	183	47	99	37	234	814
20	Food and kindred products	1,341	16	13	8	1	4	4	23
22	Textile mill products	115	6	6	3	3	(Z)	(Z)	6
26	Paper and allied products	197	25	25	1	14	10	1	155
28	Chemicals and allied products	2,359	154	69	17	42	11	85	232
29	Petroleum and coal products	1,081	135	22	3	16	3	113	284
30	Rubber and plastics products, n.e.c.	218	5	5	2	2	1	-	8
32	Stone, clay, and glass products	301	14	6	1	2	3	8	16
33	Primary metal industries	784	33	11	4	6	2	22	48

See footnotes at end of table.

and Discharged Water by Discharge Point: 1964

MAJOR INDUSTRY GROUPS

value)

Water treated and discharged												
Total discharged	Amount treated prior to discharge	Point of discharge										Code
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)			Transferred to other users	
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
13,157	3,825	987	31	271	11,759	390	6,179	195	(Z)	83	217	
483	54	49	-	8	414	4	131	3	-	-	18	
163	20	3	-	1	143	(Z)	73	1	(Z)	(Z)	16	
2	1	1	-	1	1	(Z)	-	(Z)	(Z)	(Z)	-	20
4	(Z)	(Z)	-	(Z)	4	-	(Z)	-	-	-	-	22
144	9	2	-	-	127	-	62	(Z)	-	-	16	26
35	5	1	-	(Z)	31	-	20	(Z)	-	-	2	
3	(Z)	(Z)	-	-	3	-	(Z)	-	-	-	-	22
1	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	-	-	-	36
7	1	1	-	(Z)	6	(Z)	2	(Z)	-	-	-	
1	-	(Z)	-	-	(Z)	-	-	-	-	-	-	20
5	1	(Z)	-	-	5	(Z)	1	-	-	-	-	26
144	16	26	(Z)	6	117	4	18	1	-	(Z)	(Z)	
11	(Z)	1	(Z)	(Z)	10	-	3	-	-	-	-	20
11	1	1	-	(Z)	10	-	1	(Z)	-	(Z)	(Z)	22
45	11	3	(Z)	1	41	2	11	(Z)	-	-	(Z)	26
13	2	3	-	2	10	1	1	(Z)	-	(Z)	(Z)	28
11	(Z)	3	-	2	8	-	1	(Z)	-	(Z)	-	30
1	1	1	-	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	-	31
11	(Z)	8	-	(Z)	3	-	1	(Z)	-	(Z)	(Z)	33
3	(Z)	1	-	(Z)	2	(Z)	-	(Z)	-	-	-	34
5	(Z)	1	-	(Z)	4	(Z)	(Z)	(Z)	-	(Z)	-	36
1	(Z)	(Z)	-	-	1	(Z)	-	(Z)	-	-	(Z)	37
5	(Z)	1	-	(Z)	4	-	(Z)	-	-	-	-	38
1	(Z)	1	-	-	1	(Z)	(Z)	(Z)	-	-	-	39
16	3	3	-	(Z)	14	(Z)	(Z)	(Z)	-	(Z)	(Z)	
2	-	(Z)	-	-	1	-	-	-	-	-	(Z)	20
4	3	(Z)	-	(Z)	4	-	(Z)	(Z)	-	-	-	22
1	-	(Z)	-	-	(Z)	-	-	(Z)	-	-	-	30
4	(Z)	(Z)	-	(Z)	4	-	(Z)	-	-	-	-	33
118	9	15	(Z)	1	103	(Z)	18	1	-	(Z)	(Z)	
1	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	-	-	-	-	20
4	-	1	-	-	2	-	-	(Z)	-	-	-	22
6	5	(Z)	-	(Z)	6	-	3	(Z)	-	(Z)	(Z)	26
9	(Z)	(Z)	-	(Z)	9	-	7	(Z)	-	(Z)	-	28
8	(Z)	(Z)	-	(Z)	7	(Z)	(Z)	(Z)	-	(Z)	-	30
1	1	(Z)	-	(Z)	1	(Z)	(Z)	(Z)	-	(Z)	-	32
24	1	2	-	(Z)	23	(Z)	2	(Z)	-	(Z)	-	33
2	(Z)	2	-	(Z)	1	(Z)	-	(Z)	-	(Z)	-	34
2	(Z)	2	-	1	(Z)	-	(Z)	(Z)	-	(Z)	-	35
3	(Z)	2	-	(Z)	1	(Z)	(Z)	(Z)	-	(Z)	(Z)	36
2	(Z)	2	-	-	(Z)	-	(Z)	-	-	-	-	38
5	(Z)	1	-	(Z)	4	-	(Z)	(Z)	-	(Z)	(Z)	39
2,439	710	204	4	68	2,204	67	1,444	26	-	9	8	
569	210	89	(Z)	29	466	20	285	9	-	4	5	
32	2	8	(Z)	1	22	(Z)	8	1	-	(Z)	(Z)	20
5	1	1	-	(Z)	4	-	1	-	-	-	-	22
127	15	5	-	(Z)	121	2	74	(Z)	-	(Z)	1	26
124	45	44	(Z)	6	77	15	34	1	-	(Z)	3	28
4	2	2	-	2	2	-	1	(Z)	-	(Z)	(Z)	30
4	(Z)	1	-	(Z)	2	-	-	-	-	-	-	31
10	3	2	(Z)	(Z)	8	(Z)	1	(Z)	-	-	(Z)	32
177	96	9	-	1	166	7	145	1	-	(Z)	(Z)	33
2	1	1	-	(Z)	1	-	1	(Z)	-	-	(Z)	34
11	4	4	-	1	5	2	1	2	-	(Z)	(Z)	36
7	(Z)	2	-	1	2	-	1	3	-	3	(Z)	37
11	8	4	-	1	7	7	(Z)	-	-	1	-	38
1	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	(Z)	-	-	-	39
395	132	47	1	10	342	1	204	4	-	3	1	
15	4	8	-	1	4	(Z)	3	2	-	2	(Z)	20
6	1	4	-	(Z)	2	(Z)	1	(Z)	-	-	(Z)	22
24	11	9	-	2	15	-	8	(Z)	-	(Z)	-	26
143	81	11	1	2	132	(Z)	70	(Z)	-	(Z)	(Z)	28
131	32	(Z)	-	(Z)	130	-	115	1	-	1	(Z)	29
5	(Z)	1	-	(Z)	3	-	(Z)	(Z)	-	(Z)	-	30
14	1	1	(Z)	(Z)	13	(Z)	2	(Z)	-	-	1	32
31	1	5	-	1	26	-	3	(Z)	-	(Z)	(Z)	33

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

C. STATES AND SELECTED

(In billion gallons except

Code	States and selected industry groups	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
	Middle Atlantic division—Continued								
	New Jersey—Continued								
34	Fabricated metal products	260	2	2	1	-	(Z)	(Z)	2
35	Machinery, except electrical	424	8	8	1	6	1	-	11
36	Electrical machinery	1,158	11	10	4	6	1	1	19
37	Transportation equipment	1,718	4	4	3	1	(Z)	(Z)	6
38	Instruments and related products	172	1	1	(Z)	(Z)	1	-	2
	Pennsylvania	14,792	1,551	1,542	81	1,408	53	9	2,903
20	Food and kindred products	1,258	31	31	7	16	8	-	53
22	Textile mill products	250	4	4	2	1	(Z)	-	4
26	Paper and allied products	542	79	79	5	69	5	-	634
28	Chemicals and allied products	1,205	150	148	12	130	6	1	223
29	Petroleum and coal products	1,075	115	115	3	106	5	-	381
30	Rubber and plastics products, n.e.c.	324	6	6	1	4	1	-	11
31	Leather and leather products	37	1	1	(Z)	1	(Z)	-	1
32	Stone, clay, and glass products	497	31	26	3	16	7	5	46
33	Primary metal industries	5,479	1,078	1,078	26	1,036	17	(Z)	1,412
34	Fabricated metal products	766	12	12	4	7	2	-	51
35	Machinery, except electrical	782	18	18	2	15	1	1	28
36	Electrical machinery	1,306	16	16	7	8	1	(Z)	29
37	Transportation equipment	824	8	6	5	(Z)	(Z)	2	18
38	Instruments and related products	206	1	1	1	-	(Z)	-	2
39	Miscellaneous manufacturing	188	1	1	1	-	(Z)	-	8
	East North Central division	72,109	3,694	3,642	414	2,960	267	52	6,485
	Ohio	19,202	1,168	1,162	108	952	102	6	1,935
20	Food and kindred products	1,371	15	15	7	3	5	(Z)	23
22	Textile mill products	81	1	1	1	-	(Z)	-	1
26	Paper and allied products	416	44	44	2	13	29	-	164
28	Chemicals and allied products	1,148	237	236	19	205	12	1	371
29	Petroleum and coal products	750	52	52	3	45	5	-	221
30	Rubber and plastics products, n.e.c.	1,601	35	35	7	22	6	-	82
32	Stone, clay, and glass products	576	21	21	7	12	3	-	46
33	Primary metal industries	3,884	717	712	33	650	29	5	938
34	Fabricated metal products	789	7	6	5	(Z)	2	(Z)	11
35	Machinery, except electrical	1,176	9	9	4	(Z)	4	(Z)	13
36	Electrical machinery	1,825	14	14	7	-	7	-	19
37	Transportation equipment	5,307	14	14	11	2	1	(Z)	44
	Indiana	10,873	843	843	34	773	36	(Z)	1,283
20	Food and kindred products	1,127	22	22	4	6	12	(Z)	38
26	Paper and allied products	82	8	8	1	6	2	-	14
30	Rubber and plastics products, n.e.c.	317	5	5	2	2	1	-	8
32	Stone, clay, and glass products	177	6	6	1	4	1	-	7
33	Primary metal industries	2,829	655	655	4	647	4	-	808
34	Fabricated metal products	273	2	2	1	-	1	-	3
35	Machinery, except electrical	631	4	4	2	-	2	-	8
36	Electrical machinery	1,547	10	10	8	(Z)	2	-	28
37	Transportation equipment	2,095	12	12	5	3	4	-	28
	Illinois	14,541	629	616	87	458	70	13	1,473
20	Food and kindred products	3,400	58	49	21	12	17	8	104
22	Textile mill products	36	1	1	(Z)	(Z)	(Z)	-	1
26	Paper and allied products	155	19	18	1	10	6	1	83
28	Chemicals and allied products	1,114	39	37	10	12	15	2	264
29	Petroleum and coal products	1,039	76	76	21	49	6	(Z)	356
30	Rubber and plastics products, n.e.c.	155	12	12	1	-	11	-	14
31	Leather and leather products	68	1	1	1	-	(Z)	(Z)	1
32	Stone, clay, and glass products	401	31	31	1	28	2	-	39
33	Primary metal industries	1,894	353	353	8	338	7	-	506
34	Fabricated metal products	724	7	7	5	(Z)	2	-	13
35	Machinery, except electrical	2,220	18	16	6	9	1	2	39
36	Electrical machinery	1,734	8	8	7	(Z)	1	(Z)	33
37	Transportation equipment	1,110	3	3	2	(Z)	1	-	13
38	Instruments and related products	359	3	3	3	(Z)	(Z)	-	4
	Michigan	21,122	800	767	132	598	37	33	1,299
20	Food and kindred products	851	16	16	6	5	5	(Z)	23
26	Paper and allied products	488	101	101	15	68	18	-	243
28	Chemicals and allied products	982	177	177	49	123	5	-	215
29	Petroleum and coal products	252	38	6	2	4	(Z)	32	79
31	Leather and leather products	23	1	1	(Z)	1	-	-	1
32	Stone, clay, and glass products	247	19	19	2	16	(Z)	(Z)	24
33	Primary metal industries	2,020	332	332	11	319	2	-	475

See footnotes at end of table.

and Discharged Water by Discharge Point: 1964—Continued

INDUSTRY GROUPS—Continued

value)

Water treated and discharged												
Total discharged	Amount treated prior to discharge	Point of discharge										Code
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)			Transferred to other users	
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
2	(Z)	1	-	(Z)	1	-	(Z)	(Z)	-	-	-	34
8	(Z)	2	-	1	6	-	-	(Z)	-	-	(Z)	35
11	(Z)	3	-	1	6	(Z)	(Z)	(Z)	-	(Z)	(Z)	36
4	1	1	-	(Z)	2	-	1	(Z)	-	-	(Z)	37
1	-	(Z)	-	-	2	-	-	(Z)	-	-	-	38
1,475	368	68	3	29	1,396	46	955	13	-	2	2	
29	1	5	(Z)	1	23	(Z)	4	1	-	(Z)	(Z)	20
3	1	2	(Z)	(Z)	1	(Z)	(Z)	(Z)	-	(Z)	-	22
68	32	8	2	(Z)	60	8	47	(Z)	-	(Z)	(Z)	26
151	7	7	1	1	140	(Z)	58	4	-	(Z)	(Z)	28
110	98	1	-	(Z)	108	37	19	(Z)	-	(Z)	1	29
5	(Z)	1	-	(Z)	4	-	2	(Z)	-	(Z)	(Z)	30
1	(Z)	(Z)	-	(Z)	1	(Z)	(Z)	(Z)	-	-	-	31
28	4	1	(Z)	(Z)	25	-	6	2	-	(Z)	(Z)	32
1,026	218	25	(Z)	20	996	(Z)	796	5	-	1	(Z)	33
9	4	2	-	(Z)	7	(Z)	5	(Z)	-	-	(Z)	34
18	(Z)	2	-	1	16	(Z)	15	1	-	(Z)	-	35
15	1	3	(Z)	1	12	(Z)	2	1	-	(Z)	(Z)	36
8	(Z)	4	-	3	4	-	2	-	-	-	(Z)	37
1	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	-	38
1	(Z)	6	-	(Z)	(Z)	(Z)	(Z)	(Z)	-	-	-	39
3,511	1,107	397	4	125	3,058	151	2,218	24	-	11	30	
1,115	255	124	1	54	975	9	799	12	-	4	4	
13	3	8	(Z)	1	4	2	(Z)	1	-	(Z)	(Z)	20
1	-	1	-	-	-	-	-	-	-	-	-	22
41	16	3	1	1	35	3	29	(Z)	-	(Z)	3	26
229	28	23	(Z)	2	205	(Z)	182	2	-	(Z)	(Z)	28
49	22	(Z)	-	(Z)	49	3	(Z)	-	-	-	-	29
33	1	5	-	1	27	-	17	1	-	-	(Z)	30
19	2	2	-	1	17	-	15	(Z)	-	(Z)	(Z)	32
693	179	58	(Z)	40	628	2	549	7	-	3	(Z)	33
6	1	4	-	1	3	-	1	(Z)	-	(Z)	(Z)	34
8	(Z)	6	-	1	1	(Z)	(Z)	1	-	(Z)	(Z)	35
7	(Z)	5	-	1	2	(Z)	1	(Z)	-	(Z)	-	36
13	2	8	(Z)	4	5	(Z)	4	(Z)	-	(Z)	-	37
830	357	46	1	9	778	79	551	2	-	1	3	
18	5	11	(Z)	(Z)	7	-	2	(Z)	-	(Z)	(Z)	20
8	3	1	-	(Z)	6	1	5	(Z)	-	(Z)	-	26
5	(Z)	2	-	-	3	-	-	-	-	-	-	30
5	(Z)	1	(Z)	(Z)	4	(Z)	2	(Z)	-	(Z)	(Z)	32
653	244	7	-	1	645	(Z)	529	1	-	(Z)	1	33
2	(Z)	2	-	(Z)	(Z)	(Z)	-	(Z)	-	(Z)	(Z)	34
4	1	3	(Z)	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	(Z)	35
8	1	7	(Z)	4	1	(Z)	1	(Z)	-	(Z)	(Z)	36
12	2	7	-	1	4	(Z)	2	(Z)	-	-	(Z)	37
591	187	111	2	37	456	31	273	3	-	1	21	
42	3	33	-	5	15	(Z)	4	1	-	(Z)	(Z)	20
1	-	(Z)	-	-	(Z)	-	-	-	-	-	-	22
15	7	2	-	(Z)	12	1	3	(Z)	-	(Z)	-	26
32	6	14	(Z)	4	17	-	6	1	-	(Z)	(Z)	28
88	31	23	2	21	44	-	36	(Z)	-	(Z)	20	29
12	1	2	-	2	9	-	(Z)	-	-	-	-	30
1	1	1	-	-	(Z)	-	-	(Z)	-	-	(Z)	31
29	2	1	(Z)	(Z)	28	1	7	(Z)	-	-	(Z)	32
327	130	10	-	2	316	25	211	1	-	(Z)	(Z)	33
7	(Z)	6	-	1	1	-	1	(Z)	-	(Z)	(Z)	34
18	5	6	-	1	11	4	4	(Z)	-	(Z)	(Z)	35
7	1	7	(Z)	1	1	-	(Z)	(Z)	-	-	(Z)	36
3	1	2	-	(Z)	(Z)	(Z)	(Z)	(Z)	-	-	-	37
3	(Z)	3	-	(Z)	(Z)	-	-	-	-	-	-	38
739	242	68	(Z)	17	665	20	494	5	-	4	1	
13	3	6	-	2	6	(Z)	3	1	-	(Z)	(Z)	20
77	45	2	-	1	74	12	42	1	-	1	(Z)	26
160	65	3	(Z)	1	154	(Z)	92	3	-	3	(Z)	28
37	4	1	-	-	36	1	1	(Z)	-	(Z)	-	29
1	1	(Z)	-	-	1	1	-	-	-	-	-	31
18	4	2	-	1	16	2	6	-	-	-	(Z)	32
323	108	13	-	2	310	3	298	1	-	(Z)	-	33

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

C. STATES AND SELECTED

(In billion gallons except

Code	States and selected industry groups	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
	East North Central division—Continued								
	Michigan—Continued								
34	Fabricated metal products	589	6	6	5	(Z)	1	-	10
35	Machinery, except electrical	1,073	6	6	5	(Z)	1	-	14
36	Electrical machinery	505	3	3	2	1	(Z)	-	3
37	Transportation equipment	13,545	86	86	32	51	4	-	192
	Wisconsin	6,371	254	254	53	179	22	(Z)	495
20	Food and kindred products	1,287	31	31	12	8	12	-	48
26	Paper and allied products	658	164	164	5	153	6	(Z)	349
28	Chemicals and allied products	175	4	4	2	2	(Z)	-	5
30	Rubber and plastics products, n.e.c.	94	2	2	2	-	(Z)	-	3
31	Leather and leather products	77	2	2	1	(Z)	(Z)	(Z)	2
33	Primary metal industries	379	14	14	9	4	1	(Z)	19
34	Fabricated metal products	358	3	3	2	(Z)	(Z)	-	4
35	Machinery, except electrical	1,057	14	14	6	7	1	-	21
38	Instruments and related products	79	1	1	1	(Z)	(Z)	-	1
	West North Central division	16,397	378	375	61	191	119	2	893
	Minnesota	3,046	92	92	8	49	34	(Z)	208
20	Food and kindred products	1,417	28	28	4	4	20	(Z)	49
29	Petroleum and coal products	122	3	3	1	-	2	-	54
35	Machinery, except electrical	174	1	1	(Z)	-	(Z)	-	1
	Iowa	3,526	106	106	8	67	30	-	149
20	Food and kindred products	2,234	47	47	5	21	20	-	64
36	Electrical machinery	331	1	1	1	-	(Z)	-	3
	Missouri	5,858	89	89	26	42	21	-	221
20	Food and kindred products	1,194	20	20	9	3	9	-	36
28	Chemicals and allied products	482	30	30	5	17	9	-	73
34	Fabricated metal products	189	1	1	1	-	(Z)	-	1
35	Machinery, except electrical	137	1	1	1	-	(Z)	-	2
36	Electrical machinery	208	1	1	1	-	(Z)	-	2
37	Transportation equipment	3,008	4	4	4	-	(Z)	-	15
	North Dakota	101	2	2	(Z)	1	1	(Z)	23
	South Dakota	352	6	6	1	4	(Z)	-	15
	Nebraska	1,060	25	25	8	4	12	(Z)	46
20	Food and kindred products	688	14	14	7	4	3	(Z)	22
	Kansas	2,454	58	55	10	24	21	2	231
20	Food and kindred products	457	6	6	3	(Z)	3	-	22
28	Chemicals and allied products	249	33	31	1	21	9	2	82
29	Petroleum and coal products	499	8	8	3	2	4	-	96
32	Stone, clay, and glass products	84	4	4	(Z)	1	3	-	5
37	Transportation equipment	966	2	2	1	-	1	-	13
	South Atlantic division	23,540	2,313	1,713	163	1,261	286	599	4,120
	Delaware	1,399	170	48	18	27	4	121	286
20	Food and kindred products	162	2	2	1	(Z)	1	(Z)	2
28	Chemicals and allied products	268	43	30	16	12	2	13	61
	Maryland	3,489	433	128	28	92	9	305	531
20	Food and kindred products	661	14	8	4	1	3	5	17
30	Rubber and plastics products, n.e.c.	133	5	5	2	2	1	-	8
32	Stone, clay, and glass products	113	5	4	1	3	(Z)	1	7
36	Electrical machinery	424	2	2	2	-	(Z)	-	4
37	Transportation equipment	487	3	2	2	-	(Z)	1	6
	Virginia	3,604	278	246	16	199	30	32	459
20	Food and kindred products	323	3	3	2	(Z)	1	-	6
22	Textile mill products	454	10	10	2	7	1	-	12
26	Paper and allied products	240	63	59	5	41	14	4	166
28	Chemicals and allied products	907	162	161	4	145	13	1	200
30	Rubber and plastics products, n.e.c.	49	2	2	(Z)	1	1	(Z)	3
33	Primary metal industries	62	2	2	1	1	(Z)	-	4
	West Virginia	2,418	678	675	13	648	14	3	817
32	Stone, clay, and glass products	191	2	2	1	1	1	-	10
34	Fabricated metal products	94	1	1	(Z)	(Z)	(Z)	-	1
	North Carolina	4,675	152	151	20	126	4	1	350
20	Food and kindred products	258	5	5	3	1	1	-	6
21	Tobacco manufactures	1,530	2	2	2	-	(Z)	-	10
22	Textile mill products	1,821	27	27	12	13	1	(Z)	48
26	Paper and allied products	240	67	67	(Z)	67	1	-	169
28	Chemicals and allied products	288	12	12	(Z)	11	1	(Z)	54
32	Stone, clay, and glass products	30	1	1	(Z)	(Z)	(Z)	(Z)	8
33	Primary metal industries	48	1	1	(Z)	(Z)	(Z)	-	5
36	Electrical machinery	282	2	2	1	(Z)	(Z)	-	4

See footnotes at end of table.

and Discharged Water by Discharge Point: 1964—Continued

INDUSTRY GROUPS—Continued

value)

Water treated and discharged												Code
Total discharged	Amount treated prior to discharge	Point of discharge									Transferred to other users	
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)				
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
6	1	5	-	1	1	(Z)	1	(Z)	-	(Z)	-	34
6	(Z)	5	-	(Z)	1	(Z)	(Z)	(Z)	-	(Z)	(Z)	35
2	(Z)	1	(Z)	-	1	-	-	-	-	-	-	36
83	10	28	-	9	54	1	49	(Z)	-	(Z)	-	37
236	66	48	(Z)	8	184	12	101	2	-	1	1	
29	8	12	(Z)	4	15	(Z)	8	2	-	1	(Z)	20
151	53	4	-	2	147	11	88	(Z)	-	(Z)	(Z)	26
4	1	1	-	(Z)	3	-	2	(Z)	-	-	(Z)	28
2	(Z)	1	(Z)	(Z)	1	-	-	(Z)	-	-	(Z)	30
2	1	2	-	-	-	-	-	-	-	-	(Z)	31
14	(Z)	10	-	(Z)	4	(Z)	3	(Z)	-	-	(Z)	33
3	(Z)	2	-	(Z)	(Z)	-	-	(Z)	-	-	(Z)	34
12	(Z)	4	-	(Z)	8	(Z)	(Z)	(Z)	-	-	(Z)	35
1	(Z)	1	-	(Z)	(Z)	-	-	(Z)	-	(Z)	-	38
345	82	87	3	14	255	3	83	2	-	1	-	
87	14	24	(Z)	3	61	1	27	1	-	1	(Z)	
26	5	13	(Z)	3	12	(Z)	4	1	-	1	(Z)	20
2	1	1	-	-	1	(Z)	1	(Z)	-	-	-	29
(Z)	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	-	-	-	-	35
103	36	16	2	4	86	1	48	(Z)	-	(Z)	(Z)	
45	12	14	2	3	32	1	17	(Z)	-	(Z)	(Z)	20
1	(Z)	1	-	(Z)	(Z)	-	-	-	-	-	-	36
82	7	25	(Z)	3	56	(Z)	2	(Z)	-	(Z)	(Z)	
18	2	11	(Z)	2	7	-	-	(Z)	-	-	(Z)	20
29	1	6	(Z)	1	23	-	(Z)	(Z)	-	-	(Z)	28
1	(Z)	1	-	(Z)	(Z)	-	-	-	-	-	-	34
1	-	1	-	-	(Z)	-	-	-	-	-	-	35
1	(Z)	1	-	(Z)	(Z)	(Z)	-	(Z)	-	-	-	36
4	(Z)	2	(Z)	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	37
1	1	1	-	-	1	(Z)	(Z)	(Z)	-	-	-	
5	5	2	1	(Z)	3	-	(Z)	-	-	-	-	
24	10	9	(Z)	2	15	1	1	(Z)	-	(Z)	-	
14	9	8	(Z)	2	6	-	1	(Z)	-	-	-	20
43	9	10	(Z)	2	33	(Z)	5	1	-	(Z)	-	
5	1	3	(Z)	(Z)	2	-	1	1	-	(Z)	-	20
25	2	1	-	(Z)	24	(Z)	2	(Z)	-	(Z)	-	28
5	4	(Z)	-	-	5	(Z)	1	(Z)	-	-	-	29
2	(Z)	2	-	(Z)	(Z)	-	-	(Z)	-	-	-	32
2	(Z)	1	-	-	(Z)	(Z)	-	-	-	-	-	37
2,200	566	77	7	14	2,091	10	1,214	23	-	12	10	
164	116	3	-	(Z)	161	(Z)	43	(Z)	-	(Z)	(Z)	
2	1	(Z)	-	-	1	(Z)	(Z)	(Z)	-	(Z)	-	20
42	3	(Z)	-	(Z)	42	-	41	(Z)	-	-	(Z)	28
401	94	12	-	5	383	(Z)	343	4	-	2	2	
13	1	3	-	(Z)	9	-	6	1	-	(Z)	(Z)	20
3	1	(Z)	-	(Z)	2	-	-	(Z)	-	-	(Z)	30
6	1	(Z)	-	-	3	(Z)	(Z)	1	-	-	2	32
2	(Z)	2	-	(Z)	(Z)	-	(Z)	-	-	-	-	36
2	(Z)	1	-	(Z)	2	(Z)	1	(Z)	-	(Z)	-	37
275	69	6	1	(Z)	256	1	104	6	-	5	7	
2	1	1	-	(Z)	1	(Z)	(Z)	(Z)	-	-	(Z)	20
9	4	1	-	(Z)	7	(Z)	-	(Z)	-	(Z)	-	22
64	23	1	1	(Z)	56	(Z)	23	-	-	-	7	26
160	18	(Z)	-	(Z)	155	(Z)	79	5	-	5	(Z)	28
2	(Z)	(Z)	-	-	2	-	1	(Z)	-	-	-	30
2	(Z)	(Z)	-	-	1	-	(Z)	-	-	-	-	33
670	62	14	4	1	654	2	472	2	-	2	(Z)	
4	(Z)	(Z)	-	(Z)	3	-	(Z)	-	-	-	-	32
1	(Z)	(Z)	-	(Z)	(Z)	(Z)	(Z)	(Z)	-	-	-	34
146	55	18	2	3	127	4	64	1	-	(Z)	1	
4	1	2	(Z)	(Z)	2	-	1	(Z)	-	-	(Z)	20
2	(Z)	1	-	1	(Z)	-	(Z)	-	-	-	1	21
25	9	13	1	1	12	4	1	(Z)	-	(Z)	(Z)	22
65	40	(Z)	(Z)	-	65	-	52	-	-	-	-	26
12	4	(Z)	(Z)	(Z)	12	-	11	(Z)	-	(Z)	(Z)	28
1	(Z)	(Z)	(Z)	-	(Z)	-	-	(Z)	-	-	-	32
1	-	(Z)	-	-	(Z)	-	-	(Z)	-	-	-	33
2	1	1	-	(Z)	(Z)	(Z)	-	-	-	-	-	36

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

C. STATES AND SELECTED

(In billion gallons except

Code	States and selected industry groups	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
	South Atlantic division—Continued								
	South Carolina	2,532	109	97	29	58	9	12	332
22	Textile mill products	1,599	30	30	9	18	3	-	83
28	Chemicals and allied products	397	33	33	(Z)	28	4	(Z)	99
35	Machinery, except electrical	70	1	1	1	-	(Z)	-	11
	Georgia	3,569	228	184	26	59	98	44	655
20	Food and kindred products	604	11	10	4	4	3	(Z)	15
22	Textile mill products	929	18	18	7	9	2	-	30
26	Paper and allied products	475	163	126	9	44	74	37	525
28	Chemicals and allied products	210	29	23	3	2	18	6	55
32	Stone, clay, and glass products	80	3	3	(Z)	1	1	-	10
37	Transportation equipment	1,075	2	2	2	-	-	-	13
	Florida	1,799	265	184	13	52	118	81	690
20	Food and kindred products	550	23	23	3	1	19	-	37
26	Paper and allied products	304	136	90	9	24	57	46	411
28	Chemicals and allied products	372	97	67	1	26	40	31	208
	East South Central division	10,235	800	757	84	574	100	43	1,877
	Kentucky	3,432	140	139	15	106	17	2	414
20	Food and kindred products	584	10	10	3	3	4	-	20
28	Chemicals and allied products	476	72	71	5	55	10	2	239
33	Primary metal industries	313	37	37	1	35	2	-	80
34	Fabricated metal products	140	2	2	1	-	1	-	2
35	Machinery, except electrical	255	1	1	1	-	-	-	4
	Tennessee	3,275	305	305	17	256	32	-	649
20	Food and kindred products	632	10	10	2	1	8	-	23
22	Textile mill products	278	9	9	2	3	4	-	15
26	Paper and allied products	173	57	57	2	49	6	-	134
28	Chemicals and allied products	1,154	197	197	6	183	9	-	368
32	Stone, clay, and glass products	154	9	9	1	8	(Z)	-	16
33	Primary metal industries	342	17	17	2	13	1	-	68
35	Machinery, except electrical	80	1	1	1	-	-	-	1
36	Electrical machinery	103	1	1	1	(Z)	(Z)	-	4
	Alabama	2,736	284	251	43	193	16	32	583
20	Food and kindred products	162	2	2	1	(Z)	1	-	3
22	Textile mill products	329	5	5	1	3	1	-	10
26	Paper and allied products	237	104	72	13	58	1	32	194
28	Chemicals and allied products	367	70	70	9	52	9	-	77
32	Stone, clay, and glass products	59	2	1	(Z)	1	(Z)	1	3
33	Primary metal industries	973	91	91	16	73	2	-	250
37	Transportation equipment	164	1	1	1	-	(Z)	(Z)	2
	Mississippi	792	71	62	9	19	35	9	231
20	Food and kindred products	179	2	2	1	(Z)	1	-	4
22	Textile mill products	46	1	1	(Z)	(Z)	1	-	13
28	Chemicals and allied products	123	19	15	4	3	7	4	49
	West South Central division	16,804	2,517	1,052	143	701	208	1,465	7,951
	Arkansas	911	48	48	6	19	24	(Z)	451
20	Food and kindred products	205	5	5	3	-	2	(Z)	5
24	Lumber and wood products	33	1	1	(Z)	(Z)	(Z)	-	1
28	Chemicals and allied products	137	5	5	1	1	3	-	73
36	Electrical machinery	67	1	1	1	-	-	-	1
	Louisiana	3,471	870	618	20	507	91	252	2,141
24	Lumber and wood products	19	2	1	(Z)	(Z)	1	1	2
26	Paper and allied products	297	61	61	(Z)	34	27	-	144
28	Chemicals and allied products	711	347	223	16	175	32	124	1,182
29	Petroleum and coal products	1,414	250	128	1	103	25	121	580
32	Stone, clay, and glass products	68	3	1	(Z)	-	1	2	8
	Oklahoma	1,133	16	16	10	1	5	(Z)	290
20	Food and kindred products	132	1	1	1	-	(Z)	-	1
26	Paper and allied products	14	2	2	1	1	(Z)	-	28
29	Petroleum and coal products	584	10	10	6	(Z)	3	(Z)	247
32	Stone, clay, and glass products	44	1	1	(Z)	-	(Z)	-	1
33	Primary metal industries	60	1	1	1	-	(Z)	-	4

See footnotes at end of table.

and Discharged Water by Discharge Point: 1964—Continued

INDUSTRY GROUPS—Continued

value)

Water treated and discharged												
Total discharged	Amount treated prior to discharge	Point of discharge										Code
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)			Transferred to other users	
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
101	14	7	(Z)	(Z)	93	2	46	1	-	(Z)	(Z)	
26	6	6	(Z)	(Z)	19	2	1	1	-	(Z)	-	22
33	1	(Z)	-	(Z)	33	-	22	(Z)	-	(Z)	(Z)	28
1	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	-	-	-	-	35
213	76	13	(Z)	4	200	1	19	(Z)	-	(Z)	(Z)	
9	2	4	(Z)	1	5	-	(Z)	(Z)	-	-	(Z)	20
16	4	5	(Z)	1	11	1	(Z)	(Z)	-	-	(Z)	22
154	57	(Z)	-	-	154	-	17	(Z)	-	-	(Z)	26
27	10	2	(Z)	1	25	-	1	(Z)	-	-	-	28
3	1	(Z)	-	(Z)	2	-	1	(Z)	-	(Z)	(Z)	32
2	1	(Z)	-	(Z)	1	-	(Z)	-	-	-	-	37
230	80	4	(Z)	1	217	(Z)	123	9	-	3	(Z)	
21	2	3	(Z)	(Z)	14	-	10	4	-	2	(Z)	20
131	61	(Z)	-	(Z)	127	-	63	4	-	-	-	26
75	16	-	(Z)	(Z)	72	(Z)	48	1	-	1	(Z)	28
711	272	42	-	10	657	9	329	10	-	3	2	
117	61	12	(Z)	5	100	2	43	4	-	(Z)	1	
7	(Z)	4	(Z)	(Z)	4	-	(Z)	(Z)	-	(Z)	(Z)	20
64	42	3	-	3	57	2	18	4	-	(Z)	(Z)	28
27	8	(Z)	-	(Z)	26	-	25	(Z)	-	(Z)	1	33
2	(Z)	2	-	(Z)	-	-	-	-	-	-	-	34
1	(Z)	(Z)	-	(Z)	(Z)	-	-	-	-	-	-	35
287	96	22	(Z)	4	260	1	153	5	-	3	(Z)	
9	1	6	(Z)	1	3	-	-	(Z)	-	-	(Z)	20
9	3	3	-	(Z)	2	-	2	3	-	3	(Z)	22
49	12	6	(Z)	(Z)	43	-	36	(Z)	-	-	-	26
190	61	3	(Z)	1	185	1	106	2	-	-	(Z)	28
8	4	1	-	(Z)	7	-	6	(Z)	-	(Z)	-	32
16	13	1	(Z)	(Z)	16	-	1	(Z)	-	(Z)	-	33
1	(Z)	(Z)	-	-	1	-	(Z)	-	-	-	-	35
1	(Z)	(Z)	-	(Z)	1	-	(Z)	(Z)	-	-	-	36
242	91	5	(Z)	1	236	3	123	1	-	(Z)	1	
2	(Z)	1	-	(Z)	(Z)	-	-	(Z)	-	-	(Z)	20
4	1	(Z)	(Z)	-	3	1	-	(Z)	-	-	-	22
112	59	(Z)	(Z)	-	112	(Z)	67	(Z)	-	-	-	26
65	4	(Z)	(Z)	(Z)	64	(Z)	18	-	-	-	(Z)	28
1	(Z)	(Z)	(Z)	-	1	-	-	(Z)	-	-	-	32
47	22	2	(Z)	1	45	-	32	(Z)	-	(Z)	(Z)	33
1	(Z)	(Z)	(Z)	-	1	-	(Z)	-	-	-	-	37
65	24	3	-	(Z)	61	3	10	(Z)	-	-	(Z)	
2	1	1	-	-	1	-	-	(Z)	-	-	(Z)	20
1	(Z)	1	-	-	(Z)	(Z)	-	-	-	-	-	22
18	(Z)	(Z)	-	-	18	-	7	-	-	-	-	28
2,350	607	28	1	6	2,209	23	398	6	-	2	106	
42	32	5	(Z)	(Z)	37	(Z)	3	(Z)	-	(Z)	(Z)	
4	(Z)	3	-	(Z)	1	-	-	(Z)	-	(Z)	(Z)	20
(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	24
3	(Z)	1	(Z)	(Z)	2	(Z)	1	(Z)	-	(Z)	(Z)	28
1	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	36
843	299	5	(Z)	(Z)	827	20	170	4	-	1	6	
(Z)	(Z)	(Z)	-	-	(Z)	-	-	(Z)	-	-	(Z)	24
55	47	(Z)	-	-	52	-	2	-	-	-	2	26
340	19	(Z)	(Z)	(Z)	334	6	142	3	-	(Z)	3	28
242	222	1	-	-	240	14	22	(Z)	-	(Z)	1	29
2	(Z)	1	(Z)	-	1	-	(Z)	(Z)	-	-	-	32
10	7	3	(Z)	1	7	1	1	(Z)	-	(Z)	-	
1	1	1	-	-	-	-	-	(Z)	-	-	-	20
2	2	1	-	(Z)	1	-	1	-	-	-	-	26
4	4	(Z)	-	(Z)	4	1	1	(Z)	-	(Z)	-	29
1	(Z)	(Z)	(Z)	(Z)	(Z)	-	(Z)	-	-	-	-	32
1	(Z)	(Z)	-	-	1	-	-	(Z)	-	-	-	33

TABLE 3. Water Intake by Source, Gross Water Used, and Treated

C. STATES AND SELECTED

(In billion gallons except

Code	States and selected industry groups	Value of shipments ($1,000)	Water intake by source						Gross water used, including recirculation or reuse
			Total	Fresh water				Brackish water	
				Total	From public water systems	From company water systems			
						Surface	Ground		
	West South Central division—Continued								
	Texas	11,289	1,583	370	107	174	88	1,213	5,069
20	Food and kindred products	1,115	12	12	5	3	3	(Z)	36
22	Textile mill products	55	1	1	(Z)	1	(Z)	-	1
26	Paper and allied products	94	29	24	9	-	15	5	45
28	Chemicals and allied products	2,570	1,095	156	31	89	36	939	2,118
29	Petroleum and coal products	4,727	264	107	54	26	26	157	2,397
32	Stone, clay, and glass products	189	5	4	1	1	2	2	13
35	Fabricated metal products	215	1	1	1	(Z)	1	-	27
37	Transportation equipment	1,191	14	14	2	11	1	(Z)	57
	Mountain division	4,663	206	191	26	107	57	14	706
	Montana	403	31	28	1	20	7	3	60
20	Food and kindred products	55	5	5	(Z)	4	(Z)	-	6
24	Lumber and wood products	25	4	2	(Z)	1	1	2	6
	Idaho	472	54	54	2	26	26	-	141
20	Food and kindred products	209	17	17	2	2	13	-	23
28	Chemicals and allied products	109	10	10	-	1	9	-	65
	Wyoming	182	9	9	1	6	1	-	60
29	Petroleum and coal products	154	3	3	1	2	(Z)	-	54
	Colorado	1,475	60	59	11	43	5	1	122
20	Food and kindred products	568	29	29	10	16	3	(Z)	41
28	Chemicals and allied products	48	2	2	(Z)	1	1	-	6
	New Mexico	99	1	1	(Z)	-	1	-	11
	Arizona	823	16	14	4	-	10	2	125
20	Food and kindred products	50	1	1	(Z)	-	(Z)	-	2
33	Primary metal industries	378	10	8	3	-	6	2	102
	Utah	1,091	31	22	4	12	6	8	176
20	Food and kindred products	139	3	3	2	1	1	(Z)	5
29	Petroleum and coal products	123	2	2	1	-	1	-	19
	Nevada	118	4	4	3	(Z)	1	(Z)	11
32	Stone,clay, and glass products	21	1	1	-	-	1	-	1
	Pacific division	20,893	1,011	786	222	389	174	224	2,880
	Washington	3,707	360	329	129	144	56	31	996
20	Food and kindred products	500	12	12	5	1	6	-	19
24	Lumber and wood products	188	33	21	2	14	5	12	36
26	Paper and allied products	167	242	236	111	97	27	6	794
28	Chemicals and allied products	232	34	26	3	16	7	8	36
29	Petroleum and coal products	240	3	3	3	1	-	(Z)	54
32	Stone, clay, and glass products	47	4	4	(Z)	2	1	-	4
33	Primary metal industries	431	26	22	1	12	8	4	34
	Oregon	1,064	163	154	10	129	14	9	271
24	Lumber and wood products	395	58	50	2	45	2	9	78
26	Paper and allied products	159	74	73	2	66	5	1	146
33	Primary metal industries	95	12	12	(Z)	7	4	-	18
	California	15,724	342	179	72	41	66	162	1,273
20	Food and kindred products	3,289	61	47	15	2	31	14	104
24	Lumber and wood products	188	26	26	1	20	5	1	34
26	Paper and allied products	220	28	22	7	9	7	6	126
28	Chemicals and allied products	646	35	23	9	9	4	13	132
29	Petroleum and coal products	1,890	139	29	20	1	8	110	568
30	Rubber and plastics products	210	1	1	(Z)	-	1	(Z)	12
32	Stone, clay, and glass products	458	22	9	2	1	6	13	32
33	Primary metal industries	709	14	8	6	-	2	6	155
34	Fabricated metal products	246	1	1	1	-	(Z)	-	2
35	Machinery, except electrical	188	1	1	1	-	(Z)	-	4
36	Electrical machinery	1,361	2	2	2	-	(Z)	-	11
37	Transportation equipment	3,996	7	7	6	-	1	1	72
	Alaska	68	34	34	(Z)	30	4	-	95
	Hawaii	330	112	90	11	45	34	22	245

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries.

- Represents zero. (Z) Less than 500 million gallons.

[1]Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 23 and 27. In 1959, such establishments had total water intake of 23 billion gallons, gross water use of 58 billion gallons, discharge of 22 billion gallons of water, and 152 thousand employees. Data for Major Group 19 is included in all total figures but was considered too insignificant to publish.

and Discharged Water by Discharge Point: 1964—Continued

INDUSTRY GROUPS—Continued

value)

Water treated and discharged												Code
Total discharged	Amount treated prior to discharge	Point of discharge									Transferred to other users	
		Public utility sewer			Surface water body			Ground (wells, spray, etc.)				
		Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
1,455	269	15	1	5	1,338	2	224	2	-	1	100	
7	2	5	(Z)	1	1	(Z)	(Z)	(Z)	-	-	(Z)	20
1	1	(Z)	-	-	1	-	-	-	-	-	-	22
28	22	(Z)	-	-	28	-	-	(Z)	-	-	-	26
1,041	25	4	(Z)	2	963	(Z)	160	(Z)	-	(Z)	74	28
218	189	1	-	(Z)	210	2	52	2	-	(Z)	5	29
4	(Z)	(Z)	(Z)	-	3	(Z)	(Z)	(Z)	-	(Z)	(Z)	32
1	(Z)	(Z)	-	(Z)	1	-	-	(Z)	-	-	-	35
14	1	1	(Z)	1	12	-	11	(Z)	-	(Z)	(Z)	37
176	75	19	8	2	138	5	57	7	-	4	9	
26	21	(Z)	(Z)	(Z)	21	-	2	4	-	3	-	
5	4	(Z)	-	(Z)	4	-	(Z)	(Z)	-	-	-	20
2	(Z)	(Z)	-	-	1	-	(Z)	(Z)	-	-	-	24
47	14	2	-	1	42	4	24	1	-	1	2	
15	11	2	-	1	13	4	3	(Z)	-	-	(Z)	20
8	1	-	-	-	6	-	3	1	-	1	1	28
7	4	(Z)	-	(Z)	6	(Z)	(Z)	1	-	(Z)	(Z)	
2	1	(Z)	-	(Z)	1	(Z)	(Z)	1	-	(Z)	(Z)	29
54	16	11	8	(Z)	43	-	30	(Z)	-	(Z)	-	
27	14	9	8	(Z)	17	-	7	(Z)	-	(Z)	-	20
1	1	(Z)	-	-	1	-	-	(Z)	-	-	-	28
1	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	
10	1	2	(Z)	1	6	-	(Z)	1	-	(Z)	1	
1	(Z)	(Z)	-	-	(Z)	-	-	(Z)	-	-	(Z)	20
5	1	1	(Z)	-	3	-	(Z)	1	-	-	1	33
27	17	2	(Z)	(Z)	19	1	1	(Z)	-	(Z)	5	
3	2	1	(Z)	(Z)	2	1	(Z)	(Z)	-	-	(Z)	20
2	2	1	-	-	1	-	-	-	-	-	-	29
4	2	2	(Z)	(Z)	1	-	-	(Z)	-	-	1	
(Z)	(Z)	(Z)	(Z)	-	-	-	-	(Z)	-	-	-	32
941	353	88	1	21	733	114	305	88	-	39	32	
341	108	21	(Z)	8	309	3	199	10	-	7	1	
12	4	7	-	1	3	(Z)	(Z)	1	-	-	(Z)	20
30	6	1	(Z)	(Z)	29	2	7	(Z)	-	(Z)	-	24
236	65	7	-	1	228	1	174	-	-	-	(Z)	26
28	16	5	-	5	16	-	(Z)	8	-	7	-	28
2	2	(Z)	-	(Z)	2	-	2	-	-	-	-	29
3	1	(Z)	-	-	2	-	(Z)	1	-	-	-	32
26	15	(Z)	(Z)	-	26	-	15	-	-	-	(Z)	33
151	34	13	(Z)	1	131	6	65	6	-	(Z)	1	
50	8	2	(Z)	1	47	(Z)	23	2	-	(Z)	(Z)	24
71	19	7	-	(Z)	63	2	39	1	-	(Z)	(Z)	26
11	4	(Z)	-	-	10	2	2	1	-	-	-	33
313	192	48	(Z)	12	226	105	29	19	-	12	20	
55	13	25	(Z)	3	23	-	3	5	-	1	2	20
24	13	(Z)	(Z)	(Z)	22	-	2	(Z)	-	(Z)	1	24
24	17	6	-	2	17	-	2	(Z)	-	(Z)	-	26
31	14	2	(Z)	1	27	1	6	(Z)	-	(Z)	2	28
138	112	1	-	(Z)	122	104	15	(Z)	-	-	14	29
1	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	30
17	11	1	(Z)	(Z)	4	(Z)	(Z)	12	-	10	1	32
10	9	2	-	1	8	-	(Z)	(Z)	-	(Z)	-	33
1	(Z)	1	-	(Z)	(Z)	-	(Z)	(Z)	-	(Z)	(Z)	34
1	(Z)	(Z)	-	(Z)	(Z)	-	-	(Z)	-	(Z)	(Z)	35
2	(Z)	2	-	1	(Z)	-	(Z)	(Z)	-	(Z)	-	36
6	2	4	-	3	1	-	(Z)	1	-	(Z)	(Z)	37
34	4	4	-	-	30	-	-	(Z)	-	-	-	
102	15	2	1	(Z)	37	-	12	53	-	20	10	

TABLE 4. Water Intake by Purpose and Source, 1964, and Gross

A. INDUSTRY GROUPS

(In billion gallons except employees. Data contained in this table is only

Code	Industry groups and industries	1964						
		All employees	Water intake by purpose					
			All purposes		Process	Cooling and condensing		Boiler feed, sanitary service, and other uses
			Total	Treated prior to use		Steam electric power generation	Other	
		(number)						
	United States, total[1]	4,311,219	12,257	2,752	3,030	2,658	5,730	840
20	Food and kindred products	482,058	604	95	205	44	273	82
201	Meat products	127,965	81	18	40	2	21	18
202	Dairies	54,046	34	5	7	1	16	11
203	Canned and frozen foods	90,151	71	13	41	1	21	8
204	Grain mills	28,127	55	12	7	5	36	7
205	Bakery products	21,913	2	1	(Z)	(Z)	1	1
206	Sugar	24,371	198	21	82	22	84	9
207	Candy and related products	28,943	18	(Z)	(Z)	5	11	1
208	Beverages	81,588	95	16	19	6	48	22
209	Miscellaneous foods and kindred products	24,954	48	9	7	1	33	6
21	Tobacco manufactures	30,696	3	1	1	(Z)	1	1
211	Cigarettes	28,301	2	1	1	(Z)	1	1
22	Textile mill products	231,238	94	65	62	8	13	11
221	Weaving mills, cotton	87,440	20	14	12	2	3	3
222	Weaving mills, synthetics	37,471	6	3	4	(Z)	1	1
223	Weaving, finishing mills, wool	11,057	8	6	7	(Z)	(Z)	1
226	Textile finishing, except wool	29,191	35	30	28	3	2	2
227	Floor covering mills	14,829	6	3	4	1	(Z)	1
228	Yarn and thread mills	16,439	6	4	4	1	(Z)	1
229	Miscellaneous textile goods	15,427	10	3	2	(Z)	6	1
24	Lumber and wood products	49,388	117	13	29	61	7	20
242	Sawmills and planing mills	30,047	98	7	22	55	5	16
243	Millwork and related products	11,395	10	1	2	6	1	2
25	Furniture and fixtures	24,286	2	(Z)	1	(Z)	(Z)	1
251	Household furniture	14,972	1	(Z)	(Z)	(Z)	(Z)	(Z)
26	Paper and allied products	228,204	2,009	959	1,300	410	182	117
261	Pulp mills	12,883	278	162	229	12	23	15
262	Paper mills, except building	115,425	1,091	548	699	254	71	67
263	Paperboard mills	55,082	570	230	333	127	80	30
264	Paper and paperboard products	20,807	37	17	18	10	6	3
265	Paperboard containers and boxes	14,747	4	(Z)	1	1	1	1
266	Building paper and board mills	9,260	30	2	20	7	2	1
28	Chemicals and allied products	412,250	3,055	645	250	532	2,098	175
281	Basic chemicals	167,541	2,317	503	141	459	1,615	102
282	Fibers, plastics, rubbers	114,520	479	93	48	52	345	33
283	Drugs	60,010	58	7	4	6	42	5
284	Cleaning and toilet goods	25,530	28	3	2	3	20	3
285	Paints and allied products	8,822	4	(Z)	1	(Z)	2	1
286	Gum and wood chemicals	3,485	21	5	2	1	16	2
287	Agriculture chemicals	8,688	94	18	31	7	34	22
289	Miscellaneous chemical products	23,502	55	15	21	3	23	8
29	Petroleum and coal products	111,677	1,229	166	81	84	970	94
291	Petroleum refining	106,531	1,220	165	77	81	968	93
30	Rubber and plastics products, n.e.c	177,664	128	22	17	12	86	13
301	Tires and inner tubes	71,703	47	13	8	11	21	7
306	Rubber products, n.e.c	68,220	66	4	5	1	55	4
307	Plastics products, n.e.c	22,551	13	5	3	(Z)	8	2
31	Leather and leather products	15,285	10	1	9	1	(Z)	1
32	Stone, clay, and glass products	159,405	143	25	44	48	37	14
321	Flat glass	18,570	38	9	10	15	9	3
322	Pressed and blown glassware	53,641	10	4	4	(Z)	5	2
324	Cement, hydraulic	18,259	57	5	10	30	14	3
326	Pottery and related products	11,635	1	(Z)	1	(Z)	(Z)	(Z)
327	Concrete and plaster products	8,802	7	1	5	-	1	1
328	Cut stone and stone products	1,518	1	(Z)	1	-	(Z)	(Z)
329	Nonmetallic mineral products	40,272	24	5	12	1	7	4
33	Primary metal industries	717,336	4,355	686	908	1,371	1,894	183
331	Steel rolling and finishing	480,514	3,890	595	824	1,090	1,824	152
332	Iron and steel foundries	64,013	16	2	5	(Z)	8	4
333	Primary nonferrous metal	39,070	371	78	50	266	36	18
334	Secondary nonferrous metals	1,674	1	(Z)	1	-	1	(Z)

See footnotes at end of table.

Water Used and Discharged Water, 1964 and 1959

AND INDUSTRIES

for those establishments recirculating water)

1964--Continued								1959			Code
Water intake by source						Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	
Total	Fresh water				Brackish water						
	Total	From public water systems	From company water systems								
			Surface	Ground							
12,257	9,877	1,121	7,578	1,178	2,381	28,811	11,423	r10,578	r24,704	r9,905	
604	532	143	178	211	72	1,124	545	518	1,192	470	20
81	81	39	3	39	(Z)	141	77	68	143	63	201
34	34	16	2	16	(Z)	76	33	22	41	20	202
71	68	28	3	37	3	131	68	78	114	72	203
55	49	5	30	14	6	81	48	49	67	44	204
2	2	1	-	1	-	8	2	3	5	2	205
198	152	6	103	44	45	368	177	162	255	148	206
18	15	3	6	6	3	33	17	18	32	17	207
95	92	34	24	33	3	158	82	75	425	65	208
48	38	11	6	20	10	128	41	43	109	38	209
3	3	2	-	(Z)	-	19	2	3	44	2	21
2	2	2	-	-	-	18	2	2	40	2	211
94	93	26	56	12	1	257	86	91	137	79	22
20	20	6	12	2	(Z)	80	17	20	34	17	221
6	6	5	1	(Z)	(Z)	23	5	3	5	3	222
8	8	2	5	1	-	9	8	9	15	8	223
35	35	4	29	2	1	44	33	40	50	35	226
6	6	2	2	1	-	22	6	4	5	3	227
6	6	3	3	1	-	12	6	5	8	5	228
10	10	2	3	4	(Z)	18	9	6	10	6	229
117	94	4	71	18	23	183	92	110	154	100	24
98	79	2	66	12	19	142	78	99	137	90	242
10	6	2	3	1	5	17	8	9	12	8	243
2	2	1	-	1	-	3	2	2	3	2	25
1	1	(Z)	-	(Z)	-	1	1	(S)	(S)	(S)	251
2,009	1,857	227	1,276	354	152	5,966	1,888	1,884	5,989	1,774	26
278	263	64	109	90	16	892	270	267	788	263	261
1,091	1,049	106	808	135	42	3,049	1,021	1,069	3,341	1,005	262
570	476	50	314	112	93	1,838	536	458	1,548	424	263
37	36	4	21	11	(Z)	101	33	26	76	25	264
4	4	1	2	1	(Z)	11	3	10	121	10	265
30	28	2	22	4	1	76	25	54	119	48	266
3,055	2,036	221	1,528	287	1,019	6,745	2,866	2,633	4,617	2,470	28
2,317	1,408	157	1,113	138	909	5,124	2,216	2,103	3,451	1,990	281
479	448	37	366	45	30	1,043	459	343	785	320	282
58	37	10	11	15	22	114	35	54	96	51	283
28	14	6	2	6	14	42	20	23	80	19	284
4	4	2	1	1	(Z)	7	4	7	11	7	285
21	21	(Z)	6	15	-	111	19	33	54	29	286
94	53	2	12	40	41	205	70	38	70	30	287
55	52	6	18	28	3	99	44	33	70	24	289
1,229	638	107	436	95	591	5,991	1,130	1,232	5,692	1,118	29
1,220	630	105	431	93	591	5,979	1,122	1,225	5,681	1,115	291
128	127	24	81	22	1	301	120	97	r189	89	30
47	47	10	25	12	-	159	43	50	111	45	301
66	65	10	51	5	1	101	64	36	59	34	306
13	13	4	5	5	-	37	12	9	r15	8	307
10	10	3	3	4	(Z)	13	9	7	9	7	31
143	130	21	82	26	13	283	121	r177	r340	r158	32
38	38	4	33	1	-	72	37	37	68	37	321
10	10	6	(Z)	4	(Z)	41	10	12	41	11	322
57	47	2	36	8	10	94	44	r94	r166	r79	324
1	1	1	(Z)	(Z)	-	5	1	(S)	(S)	(S)	326
7	7	1	3	3	(Z)	14	4	r3	r8	2	327
1	1	(Z)	1	(Z)	-	2	1	(S)	(S)	(S)	328
24	21	6	6	8	3	45	20	24	49	21	329
4,355	3,928	135	3,706	88	427	6,556	4,093	3,284	5,255	3,142	33
3,890	3,605	84	3,472	49	285	5,644	3,652	2,887	4,489	2,773	331
16	16	9	5	3	(Z)	33	14	26	44	22	332
371	245	11	210	23	127	690	356	292	565	273	333
1	1	1	(Z)	(Z)	(Z)	3	1	3	4	3	334

TABLE 4. Water Intake by Purpose and Source, 1964, and Gross

A. INDUSTRY GROUPS

(In billion gallons except employees. Data contained in this table is only

Code	Industry groups and industries	1964						
		All employees	Water intake by purpose					
			All purposes		Process	Cooling and condensing		Boiler feed, sanitary service, and other uses
			Total	Treated prior to use		Steam electric power generation	Other	
		(number)						
33	Primary metal industries--Continued							
335	Nonferrous rolling and drawing	95,500	54	9	25	8	15	6
336	Nonferrous foundries	13,495	4	1	2	-	2	(Z)
339	Primary metal industries, n.e.c	23,070	18	2	2	6	9	2
34	Fabricated metal products	175,034	39	4	21	(Z)	11	7
341	Metal cans	11,304	1	(Z)	(Z)	-	(Z)	(Z)
342	Cutlery, hand tools, hardware	48,044	10	1	7	(Z)	2	1
343	Plumbing and heating, except electric	15,887	3	1	1	(Z)	1	1
344	Structural metal products	28,630	11	1	6	(Z)	4	1
345	Screw machine products, bolts, etc	18,613	4	(Z)	2	(Z)	1	1
346	Metal stampings	21,992	4	(Z)	2	(Z)	1	1
347	Metal services, n.e.c	2,533	2	(Z)	2	(Z)	(Z)	(Z)
348	Fabricated wire products, n.e.c	3,347	1	(Z)	(Z)	-	(Z)	(Z)
349	Fabricated metal products, n.e.c	24,684	4	1	1	(Z)	2	1
35	Machinery, except electrical	411,173	126	11	19	53	37	17
351	Engines and turbines	56,674	45	1	2	23	17	3
353	Construction and like equipment	76,574	11	6	6	(Z)	2	3
354	Metalworking machinery	37,315	4	(Z)	1	(Z)	2	1
356	General industrial machinery	71,338	8	1	2	(Z)	4	2
358	Service industry machines	27,914	4	1	2	(Z)	1	2
359	Miscellaneous machinery	10,637	2	(Z)	1	-	1	(Z)
36	Electrical machinery	678,992	84	13	21	15	30	18
361	Electric distribution products	53,874	10	1	2	4	3	2
362	Electric industrial apparatus	58,553	14	2	2	5	5	3
363	Household appliances	75,164	17	2	7	(Z)	8	2
364	Lighting and wiring devices	31,437	4	(Z)	2	(Z)	2	1
365	Radio and TV receiving equipment	25,990	3	(Z)	1	-	1	1
366	Communication equipment	284,673	18	2	3	5	5	5
367	Electronic components	112,065	12	3	3	(Z)	5	4
369	Electrical products, n.e.c	37,236	6	1	2	(Z)	3	2
37	Transportation equipment	73,980	215	28	44	11	81	78
371	Motor vehicles and equipment	492,364	106	15	27	1	15	63
372	Aircraft and parts	496,108	93	12	16	5	63	10
373	Ship and boat building	55,610	12	(Z)	1	5	2	4
374	Railroad equipment	24,436	3	(Z)	1	1	1	1
375	Motorcycles, bicycles, and parts	5,462	1	(Z)	1	-	(Z)	(Z)
38	Instruments and related products	129,820	25	12	10	3	7	5
381	Scientific instruments	10,068	1	(Z)	(Z)	-	1	(Z)
382	Mechanical measuring devices	39,196	3	1	1	(Z)	1	1
386	Photographic equipment	45,277	14	10	7	(Z)	4	3
387	Watches, clocks, and watchcases	15,842	1	(Z)	(Z)	(Z)	(Z)	1
39	Miscellaneous manufacturing	26,506	9	1	4	3	1	1
391	Jewelry and silverware	6,029	4	(Z)	1	3	(Z)	(Z)
394	Toys and sporting goods	6,938	2	(Z)	1	-	1	(Z)

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries.

- Represents zero.
r Revised.
(S) Figures did not meet publication standards.
(Z) Less than 500 million gallons.

[1] Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 23 and 27. In 1959, such establishments had total water intake of 23 billion gallons, gross water use of 58 billion gallons, discharge of 22 billion gallons of water, and 152 thousand employees. Data for Major Group 19 is included in all total figures but was considered too insignificant to publish.

Water Used and Discharged Water, 1964 and 1959—Continued

AND INDUSTRIES—Continued

for those establishments recirculating water)

1964--Continued								1959			Code
Water intake by source						Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	
Total	Fresh water				Brackish water						
	Total	From public water systems	From company water systems								
			Surface	Ground							
54	51	22	18	11	3	138	49	68	136	64	335
4	4	3	(Z)	1	-	16	4	2	5	2	336
18	6	4	1	1	13	32	17	6	13	4	339
39	38	25	7	6	(Z)	105	35	30	56	28	34
1	1	1	-	(Z)	-	2	1	2	4	2	341
10	9	8	(Z)	1	(Z)	24	9	8	15	8	342
3	3	3	(Z)	1	-	6	3	2	7	2	343
11	11	3	6	1	-	32	9	6	12	5	344
4	4	2	(Z)	1	-	5	3	3	5	2	345
4	4	3	(Z)	1	-	25	4	4	7	4	346
2	2	2	-	(Z)	-	3	2	(S)	(S)	(S)	347
1	1	(Z)	-	(Z)	-	1	1	(S)	(S)	(S)	348
4	4	2	(Z)	1	-	6	3	4	6	4	349
126	99	33	54	12	27	256	119	141	222	136	35
45	22	4	17	1	23	58	44	69	78	68	351
11	11	6	3	2	-	60	10	7	37	7	353
4	3	2	(Z)	1	1	6	4	4	9	4	354
8	8	5	(Z)	2	-	29	7	8	15	7	356
4	4	4	-	(Z)	(Z)	13	4	3	7	2	358
2	2	1	-	1	-	3	2	2	5	2	359
84	83	50	18	17	1	246	71	82	149	77	36
10	10	5	4	1	(Z)	21	10	15	26	14	361
14	14	6	5	3	(Z)	27	14	11	21	10	362
17	16	10	-	6	(Z)	25	9	15	22	13	363
4	4	4	(Z)	1	-	7	4	4	9	4	364
3	3	2	-	(Z)	-	6	2	2	5	2	365
18	18	9	6	4	-	80	17	25	44	25	366
12	12	9	1	2	-	59	10	6	14	6	367
6	6	4	1	1	-	20	4	4	8	4	369
215	164	82	65	16	51	631	206	235	497	204	37
106	105	48	49	8	(Z)	401	100	111	283	106	371
93	52	28	16	9	41	201	90	99	173	74	372
12	3	3	(Z)	(Z)	8	14	12	18	27	18	373
3	2	2	-	(Z)	1	13	3	7	14	6	374
1	1	1	-	(Z)	-	1	1	(S)	(S)	(S)	375
25	25	8	13	5	(Z)	72	23	20	58	19	38
1	1	1	-	1	-	2	1	(S)	(S)	(S)	381
3	3	2	(Z)	1	-	4	3	(S)	(S)	(S)	382
14	14	2	8	3	(Z)	52	12	11	44	10	386
1	1	1	(Z)	(Z)	-	2	1	(S)	(S)	(S)	387
9	9	3	5	1	-	18	8	18	49	16	39
4	4	1	4	(Z)	-	5	3	(S)	(S)	(S)	391
2	2	1	1	(Z)	-	3	2	4	5	3	394

TABLE 4. Water Intake by Purpose and Source, 1964, and Gross

B. WATER USE REGIONS AND

(In billion gallons except employees. Data contained in this table is only

Code	Water use region and major industry group	1964						
		All employees	Water intake by purpose					
			All purposes		Process	Cooling and condensing		Boiler feed, sanitary service, and other uses
			Total	Treated prior to use		Steam electric power generation	Other	
		(number)						
	United States, total[1]	4,311,219	12,257	2,752	3,030	2,658	5,730	840
	New England	359,543	464	154	223	89	124	28
20	Food and kindred products	12,009	14	2	2	2	9	2
22	Textile mill products	16,560	11	4	6	2	2	1
26	Paper and allied products	30,676	230	132	180	25	10	14
28	Chemicals and allied products	13,158	52	4	6	13	31	3
30	Rubber and plastics products, n.e.c.	29,146	19	2	2	1	15	1
31	Leather and leather products	2,674	2	(Z)	2	(Z)	(Z)	(Z)
32	Stone, clay, and glass products	7,020	2	(Z)	1	(Z)	1	(Z)
33	Primary metal industries	24,983	31	4	13	10	7	2
34	Fabricated metal products	15,439	3	(Z)	1	(Z)	1	1
36	Electrical machinery	57,984	6	1	1	1	3	1
38	Instruments and related products	19,069	5	(Z)	1	3	1	(Z)
39	Miscellaneous manufacturing	11,459	6	(Z)	3	2	1	(Z)
	Delaware and Hudson	632,726	1,034	206	152	186	631	65
20	Food and kindred products	64,307	48	8	12	1	29	6
22	Textile mill products	8,588	8	5	5	1	2	1
26	Paper and allied products	18,364	111	37	51	51	4	5
28	Chemicals and allied products	92,309	250	117	28	22	187	13
29	Petroleum and coal products	13,161	235	19	19	31	170	16
30	Rubber and plastics products, n.e.c.	19,643	8	1	1	(Z)	5	2
31	Leather and leather products	1,994	1	(Z)	1	(Z)	(Z)	(Z)
32	Stone, clay, and glass products	22,412	14	1	4	6	2	2
33	Primary metal industries	70,802	296	12	21	68	196	11
34	Fabricated metal products	22,997	10	(Z)	5	(Z)	4	1
35	Machinery, except electrical	48,062	26	1	1	(Z)	23	2
36	Electrical machinery	124,462	16	2	2	5	5	2
37	Transportation equipment	98,692	8	2	3	(Z)	3	2
38	Instruments and related products	19,439	2	1	(Z)	(Z)	2	1
39	Miscellaneous manufacturing	5,708	1	(Z)	(Z)	(Z)	(Z)	(Z)
	Chesapeake Bay	269,317	633	385	137	159	302	35
20	Food and kindred products	29,007	25	2	4	4	13	4
22	Textile mill products	6,940	1	(Z)	1	(Z)	(Z)	(Z)
28	Chemicals and allied products	24,073	94	19	8	12	71	3
30	Rubber and plastics products, n.e.c.	10,001	7	3	2	1	3	1
31	Leather and leather products	1,385	1	1	1	(Z)	(Z)	(Z)
32	Stone, clay, and glass products	10,290	6	1	2	1	2	1
34	Fabricated metal products	7,485	1	(Z)	(Z)	(Z)	(Z)	(Z)
35	Machinery, except electrical	20,013	2	1	(Z)	-	(Z)	1
36	Electrical machinery	37,415	2	(Z)	(Z)	(Z)	1	1
37	Transportation equipment	43,125	13	(Z)	4	5	2	2
	Eastern Great Lakes-St. Lawrence	644,837	1,190	164	239	278	536	137
20	Food and kindred products	29,115	18	3	5	(Z)	8	4
26	Paper and allied products	11,373	85	43	57	9	3	16
28	Chemicals and allied products	26,988	192	25	13	13	137	29
29	Petroleum and coal products	4,258	62	4	1	(Z)	59	3
30	Rubber and plastics products, n.e.c.	39,569	27	7	4	10	9	5
32	Stone, clay, and glass products	16,270	26	1	5	15	4	2
33	Primary metal industries	87,505	670	61	124	227	303	16
34	Fabricated metal products	25,870	6	1	4	(Z)	1	1
35	Machinery, except electrical	51,076	5	(Z)	2	(Z)	1	2
36	Electrical machinery	71,272	7	1	2	(Z)	2	3
37	Transportation equipment	230,773	76	7	13	(Z)	8	55
38	Instruments and related products	41,230	10	8	7	-	(Z)	3
	Ohio River	742,522	2,300	280	375	459	1,325	140
20	Food and kindred products	37,453	32	7	7	(Z)	18	6
21	Tobacco manufactures	5,717	1	(Z)	(Z)	-	(Z)	(Z)
26	Paper and allied products	15,826	56	28	30	19	4	3
28	Chemicals and allied products	60,425	653	46	20	36	578	19
29	Petroleum and coal products	6,050	29	6	2	(Z)	24	4
30	Rubber and plastics products, n.e.c.	22,880	8	3	2	(Z)	4	2
31	Leather and leather products	2,845	1	(Z)	(Z)	(Z)	(Z)	(Z)
32	Stone, clay, and glass products	36,715	18	7	5	3	6	4
33	Primary metal industries	212,589	1,441	167	291	391	668	91
34	Fabricated metal products	25,340	5	1	2	(Z)	2	1

See footnotes at end of table.

Water Used and Discharged Water, 1964 and 1959

MAJOR INDUSTRY GROUPS

for those establishments recirculating water)

1964--Continued								1959			
Water intake by source											
Total	Fresh water				Brackish water	Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	Code
	Total	From public water systems	From company water systems								
			Surface	Ground							
12,257	9,877	1,121	7,578	1,178	2,381	28,811	11,423	r10,578	r24,704	r9,905	
464	344	56	269	20	119	844	418	488	775	430	
14	6	3	2	1	8	19	13	12	16	12	20
11	10	3	7	(Z)	1	13	11	15	18	14	22
230	227	9	212	6	2	517	216	232	464	205	26
52	16	9	1	7	36	71	29	36	45	33	28
19	18	3	13	1	1	43	18	21	31	20	30
2	2	(Z)	1	(Z)	-	3	1	(S)	(S)	(S)	31
2	2	1	(Z)	1	-	3	2	(S)	(S)	(S)	32
31	27	9	17	1	5	48	30	27	35	26	33
3	3	2	-	(Z)	-	5	3	(S)	(S)	(S)	34
6	6	4	2	(Z)	-	9	6	12	20	11	36
5	5	1	4	(Z)	-	8	5	(S)	(S)	(S)	38
6	6	1	4	(Z)	-	7	5	(S)	(S)	(S)	39
1,034	749	100	590	59	285	2,125	981	1,115	2,290	1,058	
48	32	17	8	7	16	74	44	66	90	60	20
8	8	1	6	(Z)	(Z)	56	8	14	16	11	22
111	110	2	97	11	1	296	107	161	351	154	26
250	151	40	93	18	99	393	238	165	289	151	28
235	89	4	82	4	146	715	229	339	745	330	29
8	8	2	4	1	(Z)	16	8	7	12	7	30
1	1	1	1	-	-	2	1	(S)	(S)	(S)	31
14	13	1	9	3	(Z)	26	13	24	50	22	32
296	274	14	254	6	22	381	274	250	299	236	33
10	10	3	6	1	-	49	7	(S)	(S)	(S)	34
26	26	2	23	1	(Z)	41	25	39	45	38	35
16	15	6	6	3	1	28	15	27	31	27	36
8	8	4	(Z)	3	(Z)	42	7	7	31	7	37
2	2	1	(Z)	1	(Z)	4	2	(S)	(S)	(S)	38
1	1	(Z)	(Z)	(Z)	-	2	1	(S)	(S)	(S)	39
633	313	43	223	47	319	1,443	593	522	1,393	490	
25	19	6	5	8	5	41	23	24	38	22	20
1	1	1	(Z)	1	-	2	1	(S)	(S)	(S)	22
94	80	5	69	6	15	143	92	128	216	123	28
7	7	3	3	2	-	11	5	7	10	6	30
1	1	(Z)	1	(Z)	-	1	1	(S)	(S)	(S)	31
6	6	2	2	2	-	9	8	7	23	7	32
1	1	1	-	(Z)	-	4	1	(S)	(S)	(S)	34
2	2	2	(Z)	1	-	11	2	(S)	(S)	(S)	35
2	2	2	-	(Z)	-	7	1	(S)	(S)	(S)	36
13	6	5	-	(Z)	7	20	13	10	14	10	37
1,190	1,149	148	980	21	41	2,077	1,110	r1,184	r1,866	1,118	
18	18	10	6	2	(Z)	56	16	15	31	13	20
85	85	2	82	1	(Z)	172	76	90	214	86	26
192	152	52	93	7	40	283	183	281	370	249	28
62	62	5	56	1	-	224	58	68	152	63	29
27	27	5	19	3	-	74	26	r35	r76	32	30
26	26	5	21	1	-	42	24	r26	r46	25	32
670	670	27	643	1	-	965	622	556	743	543	33
6	6	5	-	(Z)	-	10	5	3	5	3	34
5	5	5	(Z)	(Z)	(Z)	15	5	5	18	5	35
7	7	6	1	(Z)	-	20	6	7	21	6	36
76	75	24	48	3	(Z)	164	73	86	145	83	37
10	10	2	8	(Z)	-	45	9	(S)	(S)	(S)	38
2,300	2,289	90	2,039	160	11	3,769	2,182	1,803	2,914	1,724	
32	32	9	4	19	(Z)	57	26	36	68	33	20
1	1	1	-	-	-	3	(Z)	(S)	(S)	(S)	21
56	56	2	24	29	-	187	50	56	165	51	26
653	649	13	598	37	4	1,151	632	535	792	520	28
29	29	1	18	10	-	227	23	46	197	37	29
8	8	4	1	3	-	15	7	5	12	5	30
1	1	(Z)	(Z)	(Z)	-	1	(Z)	(S)	(S)	(S)	31
18	18	5	9	4	-	45	15	15	45	14	32
1,441	1,436	24	1,374	39	5	1,945	1,378	1,051	1,509	1,012	33
5	5	3	(Z)	2	(Z)	7	5	5	8	4	34

TABLE 4. Water Intake by Purpose and Source, 1964, and Gross

B. WATER USE REGIONS AND

(In billion gallons except employees. Data contained in this table is only

Code	Water use region and major industry group	1964						
		All employees (number)	Water intake by purpose					
			All purposes		Process	Cooling and condensing		Boiler feed, sanitary service, and other uses
			Total	Treated prior to use		Steam electric power generation	Other	
	Ohio River—Continued							
35	Machinery, except electrical	72,115	12	4	4	2	3	3
36	Electrical machinery	128,024	31	6	7	8	12	4
37	Transportation equipment	103,620	12	3	4	1	4	3
38	Instruments and related products	4,474	1	1	(Z)	(Z)	(Z)	(Z)
	Tennessee	101,666	347	84	73	30	218	26
20	Food and kindred products	3,348	2	1	(Z)	-	1	1
22	Textile mill products	16,232	10	6	6	(Z)	4	1
26	Paper and allied products	8,464	75	48	45	15	11	5
28	Chemicals and allied products	33,326	200	27	20	14	150	16
32	Stone, clay, and glass products	2,911	1	(Z)	(Z)	-	1	(Z)
33	Primary metal industries	14,915	22	1	1	-	18	3
36	Electrical machinery	7,718	1	(Z)	(Z)	-	(Z)	(Z)
	Southeast	443,947	931	346	437	173	252	69
20	Food and kindred products	25,536	28	3	6	(Z)	18	4
21	Tobacco manufactures	18,614	2	(Z)	1	(Z)	(Z)	1
22	Textile mill products	172,789	59	47	42	4	5	8
24	Lumber and wood products	5,755	4	4	3	(Z)	(Z)	1
26	Paper and allied products	36,970	522	227	283	138	81	20
28	Chemicals and allied products	37,640	194	51	54	10	103	27
29	Petroleum and coal products	788	5	3	1	-	4	1
32	Stone, clay, and glass products	9,570	15	4	8	5	2	(Z)
33	Primary metal industries	31,286	85	5	34	16	30	6
34	Fabricated metal products	6,640	2	(Z)	1	(Z)	1	(Z)
35	Machinery, except electrical	4,613	1	(Z)	(Z)	-	(Z)	(Z)
36	Electrical machinery	27,604	3	(Z)	1	-	1	1
37	Transportation equipment	37,164	3	2	2	-	1	1
	Western Great Lakes	640,005	1,520	142	438	367	655	60
20	Food and kindred products	51,861	55	9	16	4	26	9
25	Furniture and fixtures	5,162	1	(Z)	(Z)	-	(Z)	(Z)
26	Paper and allied products	26,299	177	79	99	55	13	10
28	Chemicals and allied products	34,291	126	21	11	9	96	10
29	Petroleum and coal products	9,604	153	9	18	4	128	3
30	Rubber and plastics products, n.e.c	12,846	5	1	2	-	3	1
32	Stone, clay, and glass products	9,385	13	(Z)	4	5	3	(Z)
33	Primary metal industries	127,206	935	16	262	283	374	15
34	Fabricated metal products	38,335	6	1	4	(Z)	1	1
35	Machinery, except electrical	74,308	18	1	5	6	4	3
36	Electrical machinery	75,460	8	1	3	(Z)	2	2
37	Transportation equipment	151,471	17	4	9	(Z)	4	4
38	Instruments and related products	14,860	1	(Z)	1	(Z)	(Z)	(Z)
	Upper Mississippi	379,452	481	97	147	111	178	44
20	Food and kindred products	84,055	105	26	25	9	56	15
26	Paper and allied products	19,577	121	38	70	33	10	8
28	Chemicals and allied products	17,411	53	11	10	2	34	6
29	Petroleum and coal products	5,192	17	6	1	1	11	3
32	Stone, clay, and glass products	15,229	22	3	3	12	4	2
33	Primary metal industries	24,662	112	5	24	33	53	2
34	Fabricated metal products	13,078	4	(Z)	3	(Z)	1	(Z)
35	Machinery, except electrical	73,534	31	4	5	20	3	3
36	Electrical machinery	41,640	5	(Z)	2	(Z)	2	1
37	Transportation equipment	50,872	4	1	2	-	1	2
38	Instruments and related products	14,820	2	1	(Z)	(Z)	1	1
	Lower Mississippi	49,036	551	52	77	182	266	26
22	Textile mill products	2,440	1	1	1	-	(Z)	(Z)
26	Paper and allied products	4,029	32	23	30	-	(Z)	2
28	Chemicals and allied products	9,878	195	17	13	28	146	9
29	Petroleum and coal products	6,272	122	3	25	(Z)	93	4
30	Rubber and plastics products, n.e.c	5,058	3	2	(Z)	-	3	(Z)
	Missouri	113,889	130	28	40	1	68	20
20	Food and kindred products	33,131	60	10	22	1	26	11
26	Paper and allied products	392	1	1	1	(Z)	(Z)	(Z)
28	Chemicals and allied products	4,672	17	10	2	(Z)	13	2

See footnotes at end of table.

Water Used and Discharged Water, 1964 and 1959—Continued

MAJOR INDUSTRY GROUPS—Continued

for those establishments recirculating water)

1964--Continued								1959			Code
Water intake by source						Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	
Total	Fresh water				Brackish water						
	Total	From public water systems	From company water systems								
			Surface	Ground							
12	11	6	(Z)	5	1	24	11	15	25	15	35
31	31	14	9	9	(Z)	58	23	24	48	21	36
12	11	7	1	3	1	44	11	11	36	10	37
1	1	(Z)	-	(Z)	-	1	1	(S)	(S)	(S)	38
347	347	21	318	9	-	698	329	246	r487	238	
2	2	1	1	1	-	9	2	(S)	(S)	(S)	20
10	10	3	3	4	-	16	10	(S)	(S)	(S)	22
75	75	2	73	(Z)	-	160	66	73	235	70	26
200	200	11	188	2	-	376	193	153	205	150	28
1	1	(Z)	1	(Z)	-	2	1	(S)	(S)	(S)	32
22	22	2	18	1	-	86	21	7	27	6	33
1	1	1	-	-	-	4	1	(S)	(S)	(S)	36
931	757	108	402	247	174	2,606	829	782	2,169	720	
28	28	7	5	17	-	51	26	34	59	32	20
2	2	2	-	(Z)	-	10	2	(S)	(S)	(S)	21
59	59	17	37	5	(Z)	152	52	51	89	45	22
4	4	(Z)	(Z)	4	-	14	2	(S)	(S)	(S)	24
522	395	49	207	140	127	1,459	512	462	1,415	448	26
194	156	6	76	74	38	445	166	131	255	114	28
5	4	3	(Z)	1	1	63	5	(S)	(S)	(S)	29
15	7	1	3	3	8	48	8	14	24	8	32
85	85	16	68	1	-	239	41	71	238	57	33
2	2	2	(Z)	(Z)	-	4	2	(S)	(S)	(S)	34
1	1	1	-	(Z)	-	11	1	(S)	(S)	(S)	35
3	3	2	(Z)	(Z)	-	34	3	(S)	(S)	(S)	36
3	3	3	1	(Z)	-	30	3	10	31	9	37
1,520	1,476	114	1,309	53	44	2,506	1,450	r1,264	r2,301	r1,227	
55	46	21	14	11	8	88	46	41	77	37	20
1	1	(Z)	-	(Z)	-	1	(Z)	(S)	(S)	(S)	25
177	176	18	136	22	1	451	149	149	448	140	26
126	124	15	100	10	2	257	117	146	213	138	28
153	121	1	119	(Z)	32	321	149	134	300	129	29
5	5	2	2	1	-	8	5	r6	r8	r6	30
13	12	1	11	1	(Z)	21	12	r29	r31	r27	32
935	935	17	915	3	(Z)	1,186	921	704	1,092	697	33
6	6	5	(Z)	1	-	14	6	8	17	7	34
18	18	8	8	1	-	27	16	17	25	17	35
8	8	7	(Z)	1	-	36	7	5	11	4	36
17	17	15	(Z)	2	-	86	16	20	67	18	37
1	1	1	(Z)	(Z)	-	2	1	(S)	(S)	(S)	38
481	479	54	318	106	2	1,150	437	392	r863	355	
105	105	20	36	49	-	189	98	90	140	81	20
121	121	4	103	13	(Z)	254	109	99	196	92	26
53	52	9	27	17	1	147	49	36	93	33	28
17	17	1	9	7	-	228	11	15	162	11	29
22	22	1	17	4	-	28	21	(S)	(S)	(S)	32
112	112	3	103	6	-	200	98	84	176	71	33
4	4	2	(Z)	2	-	9	4	(S)	(S)	(S)	34
31	29	5	22	3	2	53	31	30	45	30	35
5	5	3	-	2	-	9	5	3	6	3	36
4	4	4	(Z)	(Z)	-	20	4	5	21	5	37
2	2	1	(Z)	1	-	1	2	(S)	(S)	(S)	38
551	540	5	462	73	10	1,091	540	368	928	354	
1	1	(Z)	-	1	-	14	1	1	2	1	22
32	32	(Z)	7	25	-	87	31	32	96	31	26
195	193	2	171	20	2	449	191	80	277	73	28
122	115	(Z)	103	12	7	310	120	86	370	82	29
3	3	1	-	2	-	6	3	(S)	(S)	(S)	30
130	128	30	59	39	2	425	114	126	451	114	
60	60	20	25	15	(Z)	105	58	46	78	44	20
1	1	(Z)	1	(Z)	-	5	1	20	38	20	26
17	16	1	(Z)	15	(Z)	68	11	11	44	10	28

TABLE 4. Water Intake by Purpose and Source, 1964, and Gross

B. WATER USE REGIONS AND

(In billion gallons except employees. Data contained in this table is only

Code	Water use region and major industry group	1964						
		All employees (number)	Water intake by purpose					
			All purposes		Process	Cooling and condensing		Boiler feed, sanitary service, and other uses
			Total	Treated prior to use		Steam electric power generation	Other	
	Missouri—Continued							
29	Petroleum and coal products	4,625	24	6	1	(Z)	18	5
32	Stone, clay, and glass products	3,399	3	(Z)	(Z)	(Z)	3	(Z)
37	Transportation equipment	25,318	2	1	1	-	1	1
	Arkansas White and Red	117,696	188	96	115	5	45	24
20	Food and kindred products	10,947	8	1	3	(Z)	3	1
24	Lumber and wood products	3,171	1	1	(Z)	(Z)	(Z)	1
26	Paper and allied products	13,551	74	56	67	1	1	5
28	Chemicals and allied products	7,680	42	8	16	1	20	5
29	Petroleum and coal products	10,365	27	16	1	(Z)	17	9
34	Fabricated metal products	3,406	1	(Z)	(Z)	-	(Z)	(Z)
36	Electrical machinery	6,843	1	(Z)	(Z)	(Z)	(Z)	(Z)
37	Transportation equipment	31,872	2	(Z)	1	-	(Z)	1
	Western Gulf	174,390	1,511	430	101	524	826	60
20	Food and kindred products	14,097	10	2	3	1	4	2
24	Lumber and wood products	2,520	7	(Z)	1	5	1	1
26	Paper and allied products	2,455	29	9	17	10	2	(Z)
28	Chemicals and allied products	33,028	910	275	40	371	480	19
29	Petroleum and coal products	33,399	383	73	10	46	293	34
32	Stone, clay, and glass products	4,569	5	(Z)	3	1	1	(Z)
35	Machinery, except electrical	8,182	1	(Z)	(Z)	(Z)	(Z)	(Z)
	Colorado Basin	26,911	19	8	11	1	5	2
20	Food and kindred products	1,561	3	2	1	-	1	(Z)
28	Chemicals and allied products	997	2	2	1	(Z)	1	(Z)
29	Petroleum and coal products	335	1	1	1	-	(Z)	(Z)
33	Primary metal industries	4,500	11	3	8	1	1	1
	Great Basin	26,829	32	9	11	4	13	4
20	Food and kindred products	1,928	3	2	(Z)	-	2	(Z)
29	Petroleum and coal products	674	2	1	(Z)	-	2	1
32	Stone, clay, and glass products	598	1	(Z)	(Z)	-	(Z)	(Z)
	California	440,407	300	54	67	20	174	39
20	Food and kindred products	49,704	50	10	20	3	20	8
24	Lumber and wood products	9,517	25	1	12	8	1	4
26	Paper and allied products	4,877	26	10	15	7	3	1
28	Chemicals and allied products	8,729	23	6	6	(Z)	11	7
29	Petroleum and coal products	14,725	140	16	2	1	126	11
32	Stone, clay, and glass products	11,982	8	1	3	(Z)	4	1
33	Primary metal industries	22,978	14	6	5	(Z)	7	2
34	Fabricated metal products	7,951	1	(Z)	1	(Z)	(Z)	(Z)
36	Electrical machinery	63,364	1	(Z)	1	(Z)	(Z)	1
37	Transportation equipment	124,459	7	3	2	(Z)	2	3
	Pacific Northwest	126,293	483	196	294	50	89	51
20	Food and kindred products	15,235	18	2	12	(Z)	4	2
24	Lumber and wood products	23,319	70	7	8	45	4	13
26	Paper and allied products	19,405	322	180	261	4	35	21
28	Chemicals and allied products	4,023	36	2	2	-	28	6
29	Petroleum and coal products	1,048	3	2	(Z)	-	2	1
33	Primary metal industries	8,930	29	4	8	(Z)	15	7
	Cumberland	10,694	19	9	4	1	13	2
	Alaska and Hawaii	11,059	124	13	90	17	11	7

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries.

- Represents zero.
r Revised
(S) Figures did not meet publication standards.
(Z) Less than 500 million gallons.
1 Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 19, 23, and 27. In 1959, such establishments had total water intake of 35 billion gallons of water, and 338 thousand employees.

Water Used and Discharged Water, 1964 and 1959—Continued

MAJOR INDUSTRY GROUPS—Continued

for those establishments recirculating water)

1964--Continued								1959			Code
Water intake by source						Gross water used, including recirculation or reuse	Total water discharged	Total water intake	Gross water used, including recirculation or reuse	Total water discharged	
Total	Fresh water				Brackish water						
	Total	From public water systems	From company water systems								
			Surface	Ground							
24	24	2	19	3	(Z)	171	20	17	185	11	29
3	3	(Z)	(Z)	3	-	5	2	(S)	(S)	(S)	32
2	2	1	-	1	-	14	2	(S)	(S)	(S)	37
188	185	38	71	76	3	1,822	150	190	1,393	157	
8	8	4	2	2	1	12	7	5	11	4	20
1	1	(Z)	1	(Z)	-	2	1	(S)	(S)	(S)	24
74	74	1	38	35	-	426	67	62	438	59	26
42	41	18	2	21	2	724	30	47	183	41	28
27	26	10	2	15	1	549	15	32	624	14	29
1	1	1	-	(Z)	-	1	1	(S)	(S)	(S)	34
1	1	1	-	(Z)	-	1	1	(S)	(S)	(S)	36
2	2	2	-	(Z)	-	6	1	(S)	(S)	(S)	37
1,511	364	101	173	90	1,147	5,022	1,389	1,242	4,243	1,151	
10	10	3	3	3	(Z)	33	5	5	28	3	20
7	6	(Z)	5	1	1	19	1	(S)	(S)	(S)	24
29	24	9	-	15	5	45	28	32	192	27	26
910	151	28	88	35	758	1,983	865	827	1,460	790	28
383	112	55	26	31	271	2,491	334	304	2,278	268	29
5	3	(Z)	1	2	2	11	3	(S)	(S)	(S)	32
1	1	(Z)	(Z)	1	-	27	1	(S)	(S)	(S)	35
19	17	7	3	7	2	144	13	19	127	7	
3	3	(Z)	2	(Z)	-	4	2	(S)	(S)	(S)	20
2	2	2	-	(Z)	-	11	2	(S)	(S)	(S)	28
1	1	-	1	(Z)	-	10	(Z)	(S)	(S)	(S)	29
11	10	4	-	5	2	104	7	11	98	3	33
32	24	4	12	8	8	180	28	30	127	22	
3	3	1	1	(Z)	(Z)	5	3	(S)	(S)	(S)	20
2	2	1	-	1	-	19	2	(S)	(S)	(S)	29
1	1	(Z)	-	(Z)	-	1	(Z)	(S)	(S)	(S)	32
300	150	66	33	52	150	1,231	276	295	1,160	256	
50	37	12	1	24	13	92	45	40	85	34	20
25	25	1	22	3	1	34	23	14	26	12	24
26	21	7	9	6	6	125	23	27	184	25	26
23	12	8	(Z)	3	12	119	19	23	114	15	28
140	29	20	1	9	110	569	138	150	555	136	29
8	5	2	1	3	3	19	5	15	30	12	32
14	8	6	-	2	6	155	10	12	102	9	33
1	1	1	-	(Z)	-	1	1	(S)	(S)	(S)	34
1	1	1	-	(Z)	-	11	1	(S)	(S)	(S)	36
7	7	6	-	1	(Z)	71	6	9	34	8	37
483	442	133	229	80	41	1,317	452	422	1,060	403	
18	18	7	(Z)	10	-	32	17	21	35	20	20
70	48	3	39	7	22	92	59	89	109	84	24
322	315	113	167	35	7	974	311	254	790	248	26
36	28	3	9	16	8	99	33	17	19	16	28
3	3	3	1	-	(Z)	54	2	(S)	(S)	(S)	29
29	26	2	13	11	4	46	27	34	52	30	33
19	19	2	18	(Z)	-	41	19	16	35	15	
124	104	2	72	30	21	319	115	75	127	66	

TABLE 5. Water Intake, Recirculated Water and Purpose of Recirculation by Number

A. INDUSTRY

(Data contained in this table is only for those

Code	Industry groups	Value added by manufacture, adjusted (million dollars)	Total water intake (billion gallons)	Establishments reporting recirculation of water					
				Total (number)	Treating water prior to recirculation or reuse (number)	Purpose of recirculation			
						Process (number)	Cooling and condensing		Boiler feed, sanitary service, and other uses (number)
							Steam electric power generation (number)	Other (number)	
	United States, total[1]	81,095	12,257	6,142	2,713	2,909	503	4,345	3,325
20	Food and kindred products	8,121	604	1,560	539	609	66	1,113	883
201	Meat products	1,305	81	266	69	88	15	176	141
202	Dairies	771	34	360	125	73	10	292	203
203	Canned and frozen foods	1,340	71	318	91	227	3	166	153
204	Grain mills	810	55	45	18	13	4	30	32
205	Bakery products	314	2	32	16	4	-	28	20
206	Sugar	446	198	99	38	75	8	67	71
207	Candy and related products	466	18	36	16	5	2	33	26
208	Beverages	1,919	95	231	107	77	17	187	141
209	Miscellaneous foods and kindred products	750	48	173	59	47	7	134	96
21	Tobacco manufactures	1,119	3	17	11	4	4	14	17
211	Cigarettes	1,091	2	10	8	2	4	10	10
22	Textile mill products	1,800	94	331	126	60	19	219	228
221	Weaving mills, cotton	562	20	84	39	13	4	72	48
222	Weaving mills, synthetics	285	6	52	22	2	2	38	39
225	Knitting mills	139	2	30	8	3	-	16	20
226	Textile finishing, except wool	248	35	55	15	16	8	21	42
227	Floor covering mills	171	6	20	10	5	2	14	14
228	Yarn and thread mills	110	6	34	15	5	-	25	25
229	Miscellaneous textile goods	169	10	26	8	6	1	19	18
24	Lumber and wood products	424	117	121	49	29	39	37	93
242	Sawmills and planing mills	224	98	67	27	15	27	17	52
243	Millwork and related products	109	10	35	15	8	9	11	27
25	Furniture and fixtures	211	2	28	8	8	3	21	19
26	Paper and allied products	3,602	2,009	568	275	514	124	207	346
261	Pulp mills	253	278	32	10	31	10	15	22
262	Paper mills, except building	1,663	1,091	250	132	237	54	81	160
263	Paperboard mills	1,076	570	172	77	164	51	62	110
264	Paper and paperboard products	298	37	49	22	27	4	22	22
265	Paperboard containers and boxes	186	4	22	13	12	1	16	11
266	Building paper and board mills	126	30	43	21	43	4	11	21
28	Chemicals and allied products	11,037	3,059	793	422	328	81	655	376
281	Basic chemicals	4,511	2,317	384	219	151	33	313	175
282	Fibers, plastics, rubbers	2,412	479	140	69	52	28	122	67
283	Drugs	2,009	58	61	44	20	4	58	32
284	Cleaning and toilet goods	1,225	28	42	21	18	2	35	27
285	Paints and allied products	194	4	27	16	8	1	19	13
286	Gum and wood chemicals	68	21	14	7	7	2	13	12
287	Agricultural chemicals	185	94	43	11	28	3	32	13
289	Miscellaneous chemical products	433	55	82	35	44	8	63	37
29	Petroleum and coal products	2,907	1,229	229	161	96	15	195	162
291	Petroleum refining	2,829	1,220	197	151	76	15	182	145
295	Paving and roofing materials	73	8	29	8	20	-	11	16
30	Rubber and plastics products, n.e.c.	2,326	128	205	69	95	11	171	105
301	Tires and inner tubes	1,151	47	45	18	33	4	38	27
306	Rubber products, n.e.c.	777	66	93	23	38	5	77	54
307	Plastics products, n.e.c.	267	13	59	22	20	1	49	20
31	Leather and leather products	134	10	40	12	16	9	11	30
311	Leather tanning and finishing	(D)	10	38	12	15	9	10	29
32	Stone, clay, and glass products	2,413	143	337	141	167	21	234	119
321	Flat glass	315	38	17	11	6	2	16	8
322	Pressed and blown glassware	639	10	65	39	24	1	59	20
324	Cement, hydraulic	437	57	89	21	41	13	68	22
325	Structural clay products	20	1	7	4	3	-	4	3
326	Pottery and related products	105	1	17	7	7	1	9	12
327	Concrete and plaster products	151	7	50	16	28	-	20	12
329	Nonmetallic mineral products	633	24	76	35	45	3	51	35
33	Primary metal industries	10,331	4,355	581	242	346	51	424	225
331	Steel rolling and finishing	7,182	3,890	237	101	145	27	177	89
332	Iron and steel foundries	676	16	81	32	35	3	59	25
333	Primary nonferrous metal	810	371	65	27	37	16	47	35
334	Secondary nonferrous metals	18	1	8	1	4	-	7	3

See footnotes at end of table.

of Establishments, and Water Discharged by Point of Discharge: 1964

GROUPS

establishments recirculating water)

Code	Industry groups	Gross water used, including recirculation or reuse (billion gallons)	Water discharged					
			Total (billion gallons)	Point of discharge				Treated before discharge (billion gallons)
				Public utility sewer (billion gallons)	Surface water body (billion gallons)	Ground (wells, spray, etc.) (billion gallons)	Transferred to other users (billion gallons)	
	United States, total[1]	28,811	11,423	731	10,367	152	174	3,473
20	Food and kindred products	1,124	545	191	269	71	14	125
201	Meat products	141	77	57	19	1	(Z)	35
202	Dairies	76	33	21	9	3	(Z)	3
203	Canned and frozen foods	131	68	32	27	8	1	27
204	Grain mills	81	48	15	32	1	-	5
205	Bakery products	8	2	2	(Z)	(Z)	-	(Z)
206	Sugar	368	177	2	110	54	11	41
207	Candy and related products	33	17	2	14	1	(Z)	(Z)
208	Beverages	158	82	43	36	2	1	7
209	Miscellaneous foods and kindred products	128	41	17	22	1	1	7
21	Tobacco manufactures	19	2	1	(Z)	-	1	(Z)
211	Cigarettes	18	2	1	(Z)	-	1	(Z)
22	Textile mill products	257	86	28	54	4	(Z)	20
221	Weaving mills, cotton	80	17	4	13	(Z)	(Z)	4
222	Weaving mills, synthetics	23	5	3	2	(Z)	(Z)	1
225	Knitting mills	49	2	2	1	(Z)	-	(Z)
226	Textile finishing, except wool	44	33	11	21	(Z)	(Z)	7
227	Floor covering mills	22	6	3	2	1	-	2
228	Yarn and thread mills	12	6	2	4	(Z)	-	2
229	Miscellaneous textile goods	18	9	1	4	3	(Z)	3
24	Lumber and wood products	183	92	3	85	3	1	32
242	Sawmills and planing mills	142	78	1	73	2	1	28
243	Millwork and related products	17	8	1	6	(Z)	(Z)	(Z)
25	Furniture and fixtures	3	2	1	(Z)	(Z)	-	(Z)
26	Paper and allied products	5,966	1,890	76	1,770	10	32	678
261	Pulp mills	892	270	7	260	(Z)	3	74
262	Paper mills, except building	3,049	1,020	42	959	1	18	350
263	Paperboard mills	1,838	536	22	496	8	10	239
264	Paper and paperboard products	101	33	3	30	(Z)	(Z)	9
265	Paperboard containers and boxes	11	3	1	2	(Z)	-	2
266	Building paper and board mills	76	25	1	23	(Z)	(Z)	5
28	Chemicals and allied products	6,745	2,866	98	2,675	25	69	496
281	Basic chemicals	5,124	2,216	59	2,080	12	65	353
282	Fibers, plastics, rubbers	1,043	459	16	434	7	3	105
283	Drugs	114	35	9	22	3	(Z)	6
284	Cleaning and toilet goods	42	20	5	14	(Z)	(Z)	2
285	Paints and allied products	7	4	3	1	(Z)	(Z)	1
286	Gum and wood chemicals	111	19	(Z)	17	1	1	3
287	Agricultural chemicals	205	70	1	69	1	(Z)	16
289	Miscellaneous chemical products	99	44	6	38	1	(Z)	10
29	Petroleum and coal products	5,991	1,130	9	1,094	5	22	932
291	Petroleum refining	5,979	1,122	7	1,089	4	22	931
295	Paving and roofing materials	13	7	3	4	(Z)	(Z)	1
30	Rubber and plastics products, n.e.c.	301	120	20	97	2	1	8
301	Tires and inner tubes	159	43	7	34	1	(Z)	4
306	Rubber products, n.e.c.	101	64	8	55	(Z)	(Z)	1
307	Plastics products, n.e.c.	37	12	5	7	(Z)	(Z)	3
31	Leather and leather products	13	9	4	5	(Z)	-	4
311	Leather tanning and finishing	12	9	4	5	(Z)	-	4
32	Stone, clay, and glass products	283	121	12	104	3	3	23
321	Flat glass	72	37	1	36	-	-	8
322	Pressed and blown glassware	41	10	4	5	(Z)	1	2
324	Cement, hydraulic	94	44	(Z)	41	1	2	2
325	Structural clay products	1	1	(Z)	(Z)	(Z)	(Z)	(Z)
326	Pottery and related products	5	1	(Z)	1	-	-	(Z)
327	Concrete and plaster products	14	4	(Z)	3	1	(Z)	1
329	Nonmetallic mineral products	45	20	5	13	1	(Z)	10
33	Primary metal industries	6,556	4,093	122	3,921	19	31	1,092
331	Steel rolling and finishing	5,644	3,652	89	3,542	16	4	1,038
332	Iron and steel foundries	33	14	6	8	(Z)	(Z)	4
333	Primary nonferrous metal	690	356	5	325	2	24	45
334	Secondary nonferrous metals	3	1	1	(Z)	-	-	(Z)

TABLE 5. Water Intake, Recirculated Water and Purpose of Recirculation by Number

A. INDUSTRY

(Data contained in this table is only for those

Code	Industry groups	Value added by manufacture, adjusted (million dollars)	Total water intake (billion gallons)	Establishments reporting recirculation of water					
				Total (number)	Treating water prior to recirculation or reuse (number)	Purpose of recirculation			
						Process (number)	Cooling and condensing		Boiler feed, sanitary service, and other uses (number)
							Steam electric power generation (number)	Other (number)	
33	Primary metal industries—Continued								
335	Nonferrous rolling and drawing	1,241	54	129	55	96	3	97	51
336	Nonferrous foundries	149	4	27	14	14	-	19	8
339	Primary metal industries, n.e.c	254	18	34	12	15	2	18	14
34	Fabricated metal products	2,170	39	265	99	144	8	172	133
341	Metal cans	138	1	16	4	3	-	13	7
342	Cutlery, hand tools, hardware	682	10	44	25	26	1	31	25
343	Plumbing and heating, except electric	206	3	25	9	15	2	17	14
344	Structural metal products	301	11	42	9	20	1	30	22
345	Screw machine products, bolts, etc	218	4	25	10	17	1	14	7
346	Metal stampings	249	4	34	14	18	-	19	16
347	Metal services, n.e.c	22	2	29	7	17	-	16	11
348	Fabricated wire products, n.e.c	36	1	8	1	3	-	4	4
349	Fabricated metal products, n.e.c	318	4	42	20	25	3	28	27
35	Machinery, except electrical	5,087	126	257	114	115	21	194	157
351	Engines and turbines	737	45	28	14	12	4	13	20
353	Construction and like equipment	1,075	11	42	23	18	3	32	32
354	Metalworking machinery	454	4	30	12	13	2	21	15
355	Special industry machinery	171	4	17	5	2	1	13	11
356	General industrial machinery	834	8	58	22	32	4	48	28
358	Service industry machines	358	4	28	13	15	1	23	18
359	Miscellaneous machinery	138	2	13	6	4	-	10	5
36	Electrical machinery	8,229	84	332	173	143	12	282	169
361	Electric distribution products	700	10	36	22	15	5	29	17
362	Electric industrial apparatus	728	14	47	30	22	4	40	22
363	Household appliances	1,257	17	40	22	18	2	33	20
364	Lighting and wiring devices	398	4	32	8	17	-	25	9
365	Radio and TV receiving equipment	311	3	11	9	3	-	10	9
366	Communication equipment	5,920	18	59	33	22	1	57	36
367	Electronic components	1,069	12	72	33	26	-	62	37
369	Electrical products, n.e.c	516	6	35	16	20	-	26	19
37	Transportation equipment	16,906	215	315	179	173	11	264	175
371	Motor vehicles and equipment	10,052	106	189	114	123	6	163	106
372	Aircraft and parts	5,997	93	94	51	43	2	80	49
373	Ship and boat building	500	12	15	5	2	1	11	12
374	Railroad equipment	313	3	11	7	1	2	8	7
375	Motorcycles, bicycles, and parts	44	1	6	2	4	-	2	1
38	Instruments and related products	1,944	25	79	53	37	4	71	43
381	Scientific instruments	126	1	6	8	3	-	11	7
382	Mechanical measuring devices	480	3	25	11	16	-	20	13
384	Medical instruments and supplies	165	1	10	6	4	-	8	5
386	Photographic equipment	936	14	22	18	9	2	20	13
387	Watches, clocks, and watchcases	156	1	10	5	1	1	9	4
39	Miscellaneous manufacturing	335	9	38	16	13	2	27	18
394	Toys and sporting goods	76	2	9	5	4	-	7	6
396	Costume jewelry and notions	35	1	7	1	3	-	4	2
398, 399	Miscellaneous manufactures	137	1	10	3	2	-	7	6

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries whether or not separate figures are shown for the individual industries.

- Represents zero.
(D) Withheld to avoid disclosing figures for individual companies.
(Z) Less than 500 million gallons.
[1]Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 23 and 27. In 1959, such establishments had total water intake of 23 billion gallons, gross water use of 58 billion gallons, discharge of 22 billion gallons of water, and 152 thousand employees. Data for Major Group 19 is included in all total figures but was considered too insignificant to publish.

of Establishments, and Water Discharged by Point of Discharge: 1964—Continued

GROUPS—Continued

establishments recirculating water)

Code	Industry groups	Gross water used, including recirculation or reuse	Water discharged					
			Total	Point of discharge				Treated before discharge
				Public utility sewer	Surface water body	Ground (wells, spray, etc.)	Transferred to other users	
		(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)
33	Primary metal industries—Continued							
335	Nonferrous rolling and drawing	138	49	15	32	1	2	5
336	Nonferrous foundries	16	4	3	1	(Z)	(Z)	(Z)
339	Primary metal industries, n.e.c	32	17	3	13	(Z)	(Z)	(Z)
34	Fabricated metal products	105	35	21	13	(Z)	(Z)	8
341	Metal cans	2	1	1	(Z)	-	(Z)	(Z)
342	Cutlery, hand tools, hardware	24	9	6	3	(Z)	(Z)	2
343	Plumbing and heating, except electric	6	3	2	1	(Z)	-	(Z)
344	Structural metal products	32	9	2	6	(Z)	(Z)	5
345	Screw machine products, bolts, etc	5	3	2	1	(Z)	(Z)	(Z)
346	Metal stampings	25	4	3	1	(Z)	(Z)	(Z)
347	Metal services, n.e.c	3	2	2	(Z)	(Z)	(Z)	(Z)
348	Fabricated wire products, n.e.c	1	1	(Z)	(Z)	(Z)	-	(Z)
349	Fabricated metal products, n.e.c	6	3	2	1	(Z)	-	(Z)
35	Machinery, except electrical	256	119	30	86	2	1	10
351	Engines and turbines	58	44	5	39	(Z)	(Z)	1
353	Construction and like equipment	60	10	6	3	(Z)	(Z)	(Z)
354	Metalworking machinery	6	4	2	1	1	(Z)	(Z)
355	Special industry machinery	7	2	1	(Z)	-	-	(Z)
356	General industrial machinery	29	7	5	2	(Z)	(Z)	1
358	Service industry machines	13	4	2	1	(Z)	-	(Z)
359	Miscellaneous machinery	3	2	1	1	(Z)	(Z)	(Z)
36	Electrical machinery	246	71	38	30	3	(Z)	11
361	Electric distribution products	21	10	3	7	(Z)	-	1
362	Electric industrial apparatus	27	14	5	9	(Z)	-	2
363	Household appliances	25	9	7	2	(Z)	-	2
364	Lighting and wiring devices	7	4	3	1	(Z)	-	(Z)
365	Radio and TV receiving equipment	6	2	2	(Z)	(Z)	-	(Z)
366	Communication equipment	80	17	8	7	2	-	2
367	Electronic components	59	10	6	4	(Z)	(Z)	3
369	Electrical products, n.e.c	20	4	3	1	(Z)	-	1
37	Transportation equipment	631	206	60	142	5	(Z)	20
371	Motor vehicles and equipment	401	100	41	59	(Z)	(Z)	13
372	Aircraft and parts	201	90	16	70	4	(Z)	7
373	Ship and boat building	14	12	1	10	(Z)	(Z)	(Z)
374	Railroad equipment	13	3	1	2	(Z)	-	1
375	Motorcycles, bicycles, and parts	1	1	1	(Z)	(Z)	-	(Z)
38	Instruments and related products	72	23	8	14	(Z)	-	10
381	Scientific instruments	2	1	(Z)	-	(Z)	-	-
382	Mechanical measuring devices	4	3	2	(Z)	(Z)	-	(Z)
384	Medical instruments and supplies	2	1	1	1	(Z)	-	(Z)
386	Photographic equipment	52	12	3	9	(Z)	-	9
387	Watches, clocks, and watchcases	2	1	1	(Z)	-	-	(Z)
39	Miscellaneous manufacturing	18	8	2	5	(Z)	(Z)	(Z)
394	Toys and sporting goods	3	2	1	1	(Z)	-	(Z)
396	Costume jewelry and notions	1	1	(Z)	1	-	(Z)	(Z)
398, 399	Miscellaneous manufactures	8	1	(Z)	(Z)	-	-	(Z)

TABLE 5. Water Intake, Recirculated Water and Purpose of Recirculation by Number

B. WATER USE REGIONS AND MAJOR

(Data contained in this table is only for those

Code	Water use regions and major industry groups	Value added by manufacture, adjusted (million dollars)	Total water intake (billion gallons)	Establishments reporting recirculation of water					
				Total (number)	Treating water prior to recirculation or reuse (number)	Purpose of recirculation			
						Process (number)	Cooling and condensing		Boiler feed, sanitary service, and other uses (number)
							Steam electric power generation (number)	Other (number)	
	United States, total[1]	81,095	12,257	6,142	2,713	2,909	503	4,345	3,325
	New England	4,175	464	443	159	214	36	272	241
20	Food and kindred products	193	14	42	12	15	4	32	23
22	Textile mill products	140	11	45	13	10	3	17	39
26	Paper and allied products	389	230	93	34	76	16	23	56
28	Chemicals and allied products	249	52	33	16	9	-	25	16
30	Rubber and plastics products, n.e.c.	304	19	35	12	15	2	31	13
31	Leather and leather products	20	2	6	1	2	2	-	5
32	Stone, clay, and glass products	113	2	10	3	6	-	8	2
33	Primary metal industries	291	31	48	14	30	2	34	22
34	Fabricated metal products	165	3	19	10	13	-	13	9
36	Electrical machinery	658	6	35	12	10	2	30	13
38	Instruments and related products	228	5	14	6	3	1	11	5
39	Miscellaneous manufacturing	117	6	16	9	6	1	12	8
	Delaware and Hudson	9,943	1,034	688	284	322	42	488	382
20	Food and kindred products	1,224	48	138	39	53	4	106	81
22	Textile mill products	79	8	21	5	7	2	10	11
26	Paper and allied products	265	111	69	35	60	7	17	43
28	Chemicals and allied products	2,526	250	137	69	52	10	109	78
29	Petroleum and coal products	291	235	16	12	10	4	12	14
30	Rubber and plastics products, n.e.c.	246	8	35	9	15	2	29	19
31	Leather and leather products	18	1	9	3	1	2	6	8
32	Stone, clay, and glass products	272	14	35	13	14	4	22	16
33	Primary metal industries	964	296	78	30	53	3	51	33
34	Fabricated metal products	287	10	24	9	10	1	19	12
35	Machinery, except electrical	583	26	25	16	5	2	21	10
36	Electrical machinery	1,295	16	53	23	20	-	45	29
37	Transportation equipment	1,531	8	26	13	12	-	24	19
38	Instruments and related products	280	2	14	4	6	-	11	5
39	Miscellaneous manufacturing	64	1	6	3	2	1	5	2
	Chesapeake Bay	3,765	633	290	139	136	26	216	171
20	Food and kindred products	472	25	82	24	28	2	61	53
22	Textile mill products	73	1	8	5	3	1	5	7
26	Paper and allied products	223	118	27	17	25	12	15	18
28	Chemicals and allied products	470	94	34	18	18	5	28	15
30	Rubber and plastics products, n.e.c.	84	7	12	4	6	-	11	6
31	Leather and leather products	9	1	7	4	3	1	1	3
32	Stone, clay, and glass products	180	6	25	14	11	-	17	9
34	Fabricated metal products	99	1	15	7	6	1	10	10
35	Machinery, except electrical	191	2	9	5	4	-	8	6
36	Electrical machinery	472	2	15	10	2	-	12	14
37	Transportation equipment	477	13	14	8	7	1	12	7
	Eastern Great Lakes - St Lawrence	10,655	1,190	581	249	287	38	421	279
20	Food and kindred products	521	18	112	34	39	1	87	60
26	Paper and allied products	130	85	39	13	39	8	10	23
28	Chemicals and allied products	510	192	61	35	24	8	46	17
29	Petroleum and coal products	150	62	15	8	3	-	11	7
30	Rubber and plastics products, n.e.c.	522	27	31	9	14	4	27	14
32	Stone, clay, and glass products	288	26	29	12	19	2	17	15
33	Primary metal industries	1,424	670	73	27	43	2	50	23
34	Fabricated metal products	332	6	31	14	17	2	19	18
35	Machinery, except electrical	687	5	32	9	16	5	24	21
36	Electrical machinery	884	7	50	31	21	1	41	23
37	Transportation equipment	4,303	76	79	45	43	4	68	42
38	Instruments and related products	804	10	14	8	6	1	12	9
	Ohio River	11,833	2,300	718	349	346	55	527	366
20	Food and kindred products	820	32	131	52	45	10	101	79
21	Tobacco products	192	1	4	3	-	-	3	4
26	Paper and allied products	238	56	46	24	39	7	15	24
28	Chemicals and allied products	1,686	653	99	57	41	11	80	46
29	Petroleum and coal products	109	29	22	12	12	1	18	12
30	Rubber and plastics products, n.e.c.	303	8	29	11	11	-	21	15
31	Leather and leather products	23	1	5	1	2	1	-	4
32	Stone, clay, and glass products	436	18	55	31	19	5	44	29
33	Primary metal industries	2,984	1,441	128	56	73	11	95	47

See footnotes at end of table.

of Establishments, and Water Discharged by Point of Discharge: 1964

INDUSTRY GROUPS

establishments recirculating water)

Code	Water use regions and major industry groups	Gross water used, including recirculation or reuse	Water discharged					
			Total	Point of discharge				Treated before discharge
				Public utility sewer	Surface water body	Ground (wells, spray, etc.)	Transferred to other users	
		(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)
	United States, total[1]	28,811	11,423	731	10,367	152	174	3,473
	New England	844	418	31	367	2	18	44
20	Food and kindred products	19	13	2	11	(Z)	(Z)	1
22	Textile mill products	13	11	2	9	(Z)	(Z)	1
26	Paper and allied products	517	216	5	192	(Z)	18	24
28	Chemicals and allied products	71	29	3	26	(Z)	(Z)	11
30	Rubber and plastics products, n.e.c.	43	18	3	14	(Z)	-	1
31	Leather and leather products	3	1	1	1	(Z)	-	1
32	Stone, clay, and glass products	3	2	1	1	(Z)	-	1
33	Primary metal industries	48	30	3	27	(Z)	-	1
34	Fabricated metal products	5	3	2	1	-	-	1
36	Electrical machinery	9	6	2	4	(Z)	-	(Z)
38	Instruments and related products	8	5	1	4	-	-	(Z)
39	Miscellaneous manufacturing	7	5	1	4	(Z)	(Z)	(Z)
	Delaware and Hudson	2,125	981	71	892	14	4	418
20	Food and kindred products	74	44	14	27	3	1	4
22	Textile mill products	56	8	4	4	-	(Z)	1
26	Paper and allied products	296	107	11	96	(Z)	(Z)	21
28	Chemicals and allied products	393	238	16	221	1	(Z)	87
29	Petroleum and coal products	715	229	1	226	1	1	204
30	Rubber and plastics products, n.e.c.	16	8	2	5	(Z)	-	(Z)
31	Leather and leather products	2	1	1	(Z)	-	-	(Z)
32	Stone, clay, and glass products	26	13	1	11	1	1	1
33	Primary metal industries	381	274	8	263	4	(Z)	90
34	Fabricated metal products	49	7	2	6	(Z)	-	4
35	Machinery, except electrical	41	25	2	23	(Z)	-	1
36	Electrical machinery	28	15	6	7	2	(Z)	2
37	Transportation equipment	42	7	2	2	3	(Z)	1
38	Instruments and related products	4	2	(Z)	2	(Z)	-	(Z)
39	Miscellaneous manufacturing	2	1	(Z)	(Z)	(Z)	-	(Z)
	Chesapeake Bay	1,443	593	29	547	8	10	161
20	Food and kindred products	41	23	5	17	1	(Z)	2
22	Textile mill products	2	1	1	(Z)	(Z)	-	1
26	Paper and allied products	717	112	11	94	-	7	46
28	Chemicals and allied products	143	92	(Z)	87	5	(Z)	16
30	Rubber and plastics products, n.e.c.	11	5	(Z)	4	(Z)	(Z)	1
31	Leather and leather products	1	1	(Z)	1	(Z)	-	(Z)
32	Stone, clay, and glass products	9	8	1	6	(Z)	2	1
34	Fabricated metal products	4	1	(Z)	1	(Z)	-	(Z)
35	Machinery, except electrical	11	2	2	(Z)	(Z)	-	(Z)
36	Electrical machinery	7	1	1	1	(Z)	(Z)	(Z)
37	Transportation equipment	20	13	4	9	(Z)	(Z)	(Z)
	Eastern Great Lakes - St. Lawrence	2,077	1,110	101	997	8	4	344
20	Food and kindred products	56	16	8	7	1	(Z)	4
26	Paper and allied products	172	76	5	72	(Z)	-	17
28	Chemicals and allied products	283	183	27	152	2	3	87
29	Petroleum and coal products	224	58	1	57	(Z)	-	31
30	Rubber and plastics products, n.e.c.	74	26	5	21	(Z)	(Z)	2
32	Stone, clay, and glass products	42	24	1	22	(Z)	(Z)	4
33	Primary metal industries	965	622	19	598	5	(Z)	183
34	Fabricated metal products	10	5	4	2	(Z)	-	1
35	Machinery, except electrical	15	5	4	1	(Z)	(Z)	(Z)
36	Electrical machinery	20	6	4	2	(Z)	(Z)	1
37	Transportation equipment	164	73	20	53	(Z)	(Z)	6
38	Instruments and related products	45	9	2	7	-	-	7
	Ohio River	3,769	2,182	128	2,038	11	5	400
20	Food and kindred products	57	26	17	8	1	(Z)	2
21	Tobacco products	3	(Z)	(Z)	-	-	-	-
26	Paper and allied products	187	50	4	43	(Z)	3	20
28	Chemicals and allied products	1,151	632	14	615	3	(Z)	95
29	Petroleum and coal products	227	23	(Z)	23	(Z)	(Z)	16
30	Rubber and plastics products, n.e.c.	15	7	3	3	(Z)	-	1
31	Leather and leather products	1	(Z)	(Z)	(Z)	(Z)	-	(Z)
32	Stone, clay, and glass products	45	15	3	12	1	-	1
33	Primary metal industries	1,945	1,378	57	1,314	5	2	257

TABLE 5. Water Intake, Recirculated Water and Purpose of Recirculation by Number

B. WATER USE REGIONS AND MAJOR

(Data contained in this table is only for those

Code	Water use regions and major industry groups	Value added by manufacture, adjusted (million dollars)	Total water intake (billion gallons)	Establishments reporting recirculation of water					
				Total (number)	Treating water prior to recirculation or reuse (number)	Purpose of recirculation			
						Process (number)	Cooling and condensing		Boiler feed, sanitary service, and other uses (number)
							Steam electric power generation (number)	Other (number)	
	Ohio River--Continued								
34	Fabricated metal products	347	5	45	22	22	1	28	20
35	Machinery, except electrical	923	12	41	18	23	2	33	21
36	Electrical machinery	1,828	31	53	30	31	3	45	30
37	Transportation equipment	1,755	12	42	23	22	1	33	24
38	Instruments and related products	95	1	5	4	2	1	5	4
	Tennessee	1,450	347	122	47	42	9	100	61
20	Food and kindred products	55	2	19	3	3	-	15	15
22	Textile mill products	117	10	21	10	2	1	15	17
26	Paper and allied products	135	75	11	4	10	2	7	8
28	Chemicals and allied products	680	200	27	11	8	6	24	9
32	Stone, clay, and glass products	29	1	5	1	-	-	4	1
33	Primary metal industries	211	22	14	7	7	-	13	3
36	Electrical machinery	78	1	8	6	3	-	8	4
	Southeast	5,834	931	608	247	223	65	448	341
20	Food and kindred products	319	28	119	34	30	3	88	64
21	Tobacco products	706	2	8	6	4	3	7	8
22	Textile mill products	1,289	59	216	87	34	12	160	141
24	Lumber and wood products	58	4	11	3	2	3	3	7
26	Paper and allied products	720	522	52	23	49	26	34	31
28	Chemicals and allied products	849	194	66	31	33	9	55	33
29	Petroleum and coal products	20	5	8	6	2	-	5	4
32	Stone, clay, and glass products	153	15	31	12	16	1	23	11
33	Primary metal industries	385	85	25	8	19	7	16	6
34	Fabricated metal products	87	2	15	5	7	-	11	4
36	Electrical machinery	331	3	20	10	10	-	17	9
37	Transportation equipment	526	3	11	7	6	-	8	7
	Western Great Lakes	9,953	1,520	660	281	351	48	414	384
20	Food and kindred products	1,116	55	144	50	61	6	96	85
26	Paper and allied products	361	177	81	38	68	12	22	47
28	Chemicals and allied products	1,066	126	68	38	35	4	52	42
29	Petroleum and coal products	204	153	18	11	8	-	13	11
30	Rubber and plastics products, n.e.c.	177	5	16	5	5	1	12	7
31	Leather and leather products	35	3	10	2	5	3	2	7
32	Stone, clay, and glass products	127	13	24	7	14	3	14	7
33	Primary metal industries	1,780	935	77	31	40	5	55	34
34	Fabricated metal products	470	6	58	17	36	2	28	37
35	Machinery, except electrical	875	18	55	29	23	5	34	44
36	Electrical machinery	894	8	37	21	19	4	29	21
37	Transportation equipment	2,524	17	45	24	29	2	36	25
38	Instruments and related products	193	1	10	5	4	-	10	6
	Upper Mississippi	5,799	481	467	203	216	47	325	257
20	Food and kindred products	1,282	105	213	77	83	16	139	128
26	Paper and allied products	274	121	39	25	33	13	12	24
28	Chemicals and allied products	446	53	36	20	13	4	33	16
29	Petroleum and coal products	146	17	9	7	3	1	7	5
30	Rubber and plastics products, n.e.c.	133	4	14	5	6	-	10	9
32	Stone, clay, and glass products	272	22	19	11	10	2	11	7
33	Primary metal industries	330	112	24	9	15	3	20	10
34	Fabricated metal products	148	4	20	6	8	1	15	13
35	Machinery, except electrical	998	31	39	16	22	3	30	24
36	Electrical machinery	495	5	26	11	9	1	21	9
37	Transportation equipment	997	4	13	9	8	-	13	4
38	Instruments and related products	170	2	6	2	4	1	5	3
	Lower Mississippi	960	551	119	56	54	9	80	72
20	Food and kindred products	132	33	45	16	11	1	28	26
22	Textile mill products	28	1	3	1	-	-	2	3
26	Paper and allied products	69	32	9	4	9	1	4	6
28	Chemicals and allied products	293	195	27	21	15	4	23	15
30	Rubber and plastics products, n.e.c.	63	3	5	4	3	-	4	4

See footnotes at end of table.

of Establishments, and Water Discharged by Point of Discharge: 1964—Continued

INDUSTRY GROUPS—Continued

establishments recirculating water)

Code	Water use regions and major industry groups	Gross water used, including recirculation or reuse	Water discharged					
			Total	Point of discharge				Treated before discharge
				Public utility sewer	Surface water body	Ground (wells, spray, etc.)	Transferred to other users	
		(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)	(billion gallons)
	Ohio River--Continued							
34	Fabricated metal products	7	5	3	2	(Z)	(Z)	(Z)
35	Machinery, except electrical	24	11	8	1	1	(Z)	1
36	Electrical,machinery	58	23	11	12	(Z)	-	3
37	Transportation equipment	44	11	6	5	(Z)	(Z)	2
38	Instruments and related products	1	1	(Z)	(Z)	-	-	(Z)
	Tennessee	698	329	8	313	8	(Z)	90
20	Food and kindred products	9	2	1	1	(Z)	-	-
22	Textile mill products	16	10	2	4	3	(Z)	3
26	Paper and allied products	160	66	2	64	(Z)	-	30
28	Chemicals and allied products	376	193	1	188	4	(Z)	41
32	Stone, clay, and glass products	2	1	(Z)	1	-	-	(Z)
33	Primary metal industries	86	21	1	20	(Z)	-	15
36	Electrical machinery	4	1	(Z)	(Z)	(Z)	-	(Z)
	Southeast	2,606	829	34	785	9	2	318
20	Food and kindred products	51	26	7	16	3	(Z)	5
21	Tobacco products	10	2	1	(Z)	-	1	(Z)
22	Textile mill products	152	52	16	34	1	(Z)	14
24	Lumber and wood products	14	2	(Z)	2	(Z)	-	1
26	Paper and allied products	1,459	512	(Z)	508	4	(Z)	231
28	Chemicals and allied products	445	166	2	161	2	1	32
29	Petroleum and coal products	63	5	(Z)	5	(Z)	(Z)	4
32	Stone, clay, and glass products	48	8	(Z)	8	(Z)	-	4
33	Primary metal industries	239	41	2	40	(Z)	(Z)	21
34	Fabricated metal products	4	2	1	1	(Z)	(Z)	1
36	Electrical machinery	34	3	2	1	(Z)	-	1
37	Transportation equipment	30	3	1	3	(Z)	(Z)	2
	Western Great Lakes	2,506	1,450	100	1,341	8	1	526
20	Food and kindred products	88	46	29	16	1	(Z)	13
26	Paper and allied products	451	149	5	142	1	(Z)	58
28	Chemicals and allied products	257	117	8	105	4	1	41
29	Petroleum and coal products	321	149	1	148	(Z)	-	93
30	Rubber and plastics products, n.e.c	8	5	3	3	(Z)	-	1
31	Leather and leather products	3	3	2	1	-	-	2
32	Stone, clay, and glass products	21	12	1	11	(Z)	(Z)	3
33	Primary metal industries	1,186	921	21	899	(Z)	(Z)	308
34	Fabricated metal products	14	6	4	2	(Z)	(Z)	1
35	Machinery, except electrical	27	16	6	9	(Z)	(Z)	1
36	Electrical machinery	36	7	6	1	(Z)	-	1
37	Transportation equipment	86	16	13	3	(Z)	-	4
38	Instruments and related products	2	1	1	(Z)	(Z)	-	(Z)
	Upper Mississippi	1,150	437	89	342	5	(Z)	169
20	Food and kindred products	189	98	41	55	3	(Z)	18
26	Paper and allied products	254	109	8	101	(Z)	(Z)	34
28	Chemicals and allied products	147	49	14	35	1	(Z)	15
29	Petroleum and coal products	228	11	3	8	(Z)	-	8
30	Rubber and plastics products, n.e.c	8	4	1	3	(Z)	-	(Z)
32	Stone, clay, and glass products	28	21	1	19	(Z)	-	1
33	Primary metal industries	200	98	6	91	1	-	84
34	Fabricated metal products	9	4	3	1	(Z)	-	(Z)
35	Machinery, except electrical	53	31	4	26	(Z)	-	6
36	Electrical machinery	9	5	3	2	-	-	1
37	Transportation equipment	20	4	3	1	(Z)	(Z)	(Z)
38	Instruments and related products	1	2	1	(Z)	(Z)	-	(Z)
	Lower Mississippi	1,091	540	16	520	3	2	127
20	Food and kindred products	43	31	6	23	1	(Z)	4
22	Textile mill products	14	1	1	(Z)	-	-	(Z)
26	Paper and allied products	87	31	4	27	(Z)	-	3
28	Chemicals and allied products	449	191	2	186	2	1	18
30	Rubber and plastics products, n.e.c	6	3	1	2	(Z)	(Z)	-

TABLE 5. Water Intake, Recirculated Water and Purpose of Recirculation by Number

B. WATER USE REGIONS AND MAJOR

(Data contained in this table is only for those

Code	Water use regions and major industry groups	Value added by manufacture, adjusted (million dollars)	Total water intake (billion gallons)	Establishments reporting recirculation of water					
				Total (number)	Treating water prior to recirculation or reuse (number)	Purpose of recirculation			
						Process (number)	Cooling and condensing		Boiler feed, sanitary service, and other uses (number)
							Steam electric power generation (number)	Other (number)	
	Missouri	1,954	130	192	74	88	13	159	117
20	Food and kindred products	438	60	107	33	49	6	89	75
26	Paper and allied products	5	1	6	5	6	-	-	4
28	Chemicals and allied products	186	17	17	11	6	1	14	5
29	Petroleum and coal products	114	24	19	12	4	3	18	15
32	Stone, clay, and glass products	54	3	9	3	4	-	7	-
37	Transportation equipment	610	2	7	4	6	-	6	5
	Arkansas White and Red	1,665	188	220	95	111	21	165	117
20	Food and kindred products	102	8	59	18	17	-	40	33
24	Lumber and wood products	18	1	10	4	3	5	3	7
26	Paper and allied products	239	74	19	6	17	7	11	11
28	Chemicals and allied products	188	42	35	15	19	3	26	14
29	Petroleum and coal products	276	27	36	28	20	2	33	30
32	Stone, clay, and glass products	74	2	18	7	11	2	16	1
36	Electrical machinery	78	1	6	1	1	1	5	2
37	Transportation equipment	327	2	7	3	4	-	6	3
	Western Gulf	3,814	1,511	253	151	98	27	219	128
20	Food and kindred products	263	10	50	22	13	3	41	28
24	Lumber and wood products	15	7	5	3	1	4	1	3
28	Chemicals and allied products	1,362	910	76	55	31	8	71	32
29	Petroleum and coal products	880	383	42	35	13	3	42	34
32	Stone, clay, and glass products	87	5	24	6	12	-	19	4
35	Machinery, except electrical	127	1	9	4	4	-	7	2
37	Transportation equipment	513	14	11	6	5	1	10	6
	Colorado Basin	348	19	36	21	14	7	32	19
20	Food and kindred products	18	3	8	5	2	-	7	4
28	Chemicals and allied products	22	2	6	2	1	1	5	2
29	Petroleum and coal products	12	1	3	2	1	-	3	3
33	Primary metal industries	67	11	10	7	6	6	9	6
	Great Basin	462	32	33	18	13	6	23	25
20	Food and kindred products	27	3	13	5	6	-	7	11
29	Petroleum and coal products	21	2	3	3	-	-	3	2
32	Stone, clay, and glass products	14	1	4	1	2	-	2	2
	California	6,304	300	443	230	248	20	303	209
20	Food and kindred products	835	50	183	87	93	6	122	76
24	Lumber and wood products	81	25	24	10	7	5	4	21
26	Paper and allied products	96	26	27	14	26	3	11	15
28	Chemicals and allied products	289	23	46	23	22	2	39	24
29	Petroleum and coal products	409	140	17	13	12	-	15	10
30	Rubber and plastics products, n.e.c	95	1	7	3	5	-	5	5
32	Stone, clay, and glass products	215	8	36	15	23	2	22	11
33	Primary metal industries	309	14	22	16	13	-	17	8
34	Fabricated metal products	95	1	14	6	11	-	8	5
36	Electrical machinery	778	1	20	13	8	-	19	11
37	Transportation equipment	1,708	7	28	19	18	1	25	12
	Pacific Northwest	1,845	483	221	91	117	27	117	132
20	Food and kindred products	195	18	70	20	44	1	39	33
24	Lumber and wood products	201	70	55	24	11	18	19	45
26	Paper and allied products	390	322	43	23	41	8	22	30
28	Chemicals and allied products	117	36	17	8	8	-	15	8
29	Petroleum and coal products	57	3	5	4	-	-	4	5
33	Primary metal industries	204	29	16	6	6	-	9	5
	Cumberland	212	19	21	9	11	4	21	11
	Alaska and Hawaii	125	124	27	10	18	3	15	13

Note: Detailed figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 million gallons.

n.e.c. Not elsewhere classified.

[1]Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 23 and 27. In 1959, such establishments had total water intake of 23 billion gallons, gross water use of 58 billion gallons, discharge of 22 billion gallons of water, and 152 thousand employees. Data for Major Group 19 is included in all total figures but was considered too insignificant to publish.

of Establishments, and Water Discharged by Point of Discharge: 1964—Continued

INDUSTRY GROUPS—Continued

establishments recirculating water)

Code	Water use regions and major industry groups	Gross water used, including recirculation or reuse (billion gallons)	Water discharged					
			Total (billion gallons)	Point of discharge				Treated before discharge (billion gallons)
				Public utility sewer (billion gallons)	Surface water body (billion gallons)	Ground (wells, spray, etc.) (billion gallons)	Transferred to other users (billion gallons)	
	Missouri	425	114	31	81	2	(Z)	57
20	Food and kindred products	105	58	24	33	(Z)	(Z)	33
26	Paper and allied products	5	1	(Z)	1	-	-	(Z)
28	Chemicals and allied products	68	11	2	10	(Z)	-	1
29	Petroleum and coal products	171	20	(Z)	19	1	(Z)	19
32	Stone, clay, and glass products	5	2	1	1	(Z)	-	(Z)
37	Transportation equipment	14	2	1	(Z)	-	-	(Z)
	Arkansas White and Red	1,822	150	11	135	2	2	87
20	Food and kindred products	12	7	4	3	(Z)	(Z)	1
24	Lumber and wood products	2	1	(Z)	(Z)	(Z)	(Z)	(Z)
26	Paper and allied products	426	67	2	63	(Z)	2	66
28	Chemicals and allied products	724	30	1	28	1	(Z)	4
29	Petroleum and coal products	549	15	(Z)	14	(Z)	(Z)	13
32	Stone, clay, and glass products	8	1	(Z)	1	(Z)	(Z)	(Z)
36	Electrical machinery	1	1	(Z)	(Z)	(Z)	-	(Z)
37	Transportation	6	1	1	1	(Z)	-	(Z)
	Western Gulf	5,022	1,389	11	1,290	2	87	382
20	Food and kindred products	33	5	4	1	(Z)	(Z)	1
24	Lumber and wood products	19	1	(Z)	1	(Z)	-	1
28	Chemicals and allied products	1,983	865	3	801	(Z)	60	24
29	Petroleum and coal products	2,491	334	1	326	1	7	304
32	Stone, clay, and glass products	11	3	(Z)	2	(Z)	(Z)	(Z)
35	Machinery, except electrical	27	1	(Z)	1	(Z)	-	(Z)
37	Transportation equipment	57	13	1	12	(Z)	(Z)	1
	Colorado Basin	144	13	3	6	1	2	5
20	Food and kindred products	4	2	(Z)	2	(Z)	(Z)	2
28	Chemicals and allied products	11	2	2	(Z)	(Z)	-	2
29	Petroleum and coal products	10	(Z)	-	(Z)	(Z)	-	(Z)
33	Primary metal industries	104	7	1	3	1	2	1
	Great Basin	180	28	2	19	2	5	16
20	Food and kindred products	5	3	1	2	-	(Z)	2
29	Petroleum and coal products	19	2	1	1	-	-	2
32	Stone, clay, and glass products	1	(Z)	(Z)	(Z)	(Z)	-	(Z)
	California	1,231	276	41	209	6	19	168
20	Food and kindred products	92	45	20	20	3	2	12
24	Lumber and wood products	34	23	(Z)	21	(Z)	1	13
26	Paper and allied products	125	23	6	17	(Z)	-	17
28	Chemicals and allied products	119	19	2	15	(Z)	2	4
29	Petroleum and coal products	569	138	1	122	(Z)	14	110
30	Rubber and plastics products, n.e.c	12	1	1	(Z)	(Z)	(Z)	(Z)
32	Stone, clay, and glass products	19	5	(Z)	4	1	(Z)	1
33	Primary metal industries	155	10	2	8	(Z)	-	9
34	Fabricated metal products	1	1	1	(Z)	(Z)	(Z)	(Z)
36	Electrical machinery	11	1	1	(Z)	(Z)	-	(Z)
37	Transportation equipment	71	6	4	1	1	(Z)	2
	Pacific Northwest	1,317	452	23	417	9	3	132
20	Food and kindred products	32	17	7	8	2	(Z)	8
24	Lumber and wood products	92	59	2	56	1	(Z)	13
26	Paper and allied products	974	311	13	293	4	(Z)	88
28	Chemicals and allied products	99	33	1	30	1	1	9
29	Petroleum and coal products	54	2	(Z)	2	-	-	2
33	Primary metal industries	46	27	(Z)	24	1	1	12
	Cumberland	41	19	1	18	(Z)	-	16
	Alaska and Hawaii	319	115	2	51	52	10	14

TABLE 6. Water Treated Prior to Use and Type of Treatment by Number of Establishments: 1964

A. INDUSTRY GROUPS AND INDUSTRIES

Code	Industry groups and industries	Water treated prior to use (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
	United States, total[1]	2,933	463	1,013	1,665	3,475	1,400	2,226	590	3,533
20	Food and kindred products	113	82	189	332	880	205	480	126	1,038
201	Meat products	21	9	7	30	130	18	91	20	236
2011	Meat slaughtering plants	19	9	7	20	95	13	60	14	95
2013	Meat processing plants	(Z)	-	-	3	17	1	16	3	26
2015	Poultry dressing plants	1	-	-	7	18	4	15	3	115
202	Dairies	7	11	18	32	220	48	122	20	241
2021	Creamery butter	1	-	-	2	19	5	10	1	38
2022	Natural and process cheese	(Z)	-	9	-	23	2	5	1	10
2023	Condensed and evaporated milk	2	3	3	8	51	10	11	7	25
2024	Ice cream and frozen desserts	(Z)	2	1	1	15	4	13	-	29
2026	Fluid milk	3	6	5	21	112	27	83	11	139
203	Canned and frozen foods	14	17	10	37	175	25	77	16	217
2033	Canned fruits and vegetables	3	8	5	14	98	7	42	9	113
2034	Dehydrated foods products	(Z)	1	-	-	10	2	1	-	11
2035	Pickles, sauces, salad dressings	(Z)	-	3	2	13	4	6	2	14
2037	Frozen fruits and vegetables	2	6	1	9	36	6	20	3	45
204	Grain mills	12	6	12	13	31	14	14	4	30
2045	Blended and prepared flour	(Z)	1	-	-	3	-	3	-	-
2046	Wet corn milling	10	2	8	11	8	7	1	1	5
205	Bakery products	1	3	1	5	19	1	15	2	35
206	Sugar	29	2	11	16	37	16	9	19	59
2061	Raw cane sugar	4	1	5	8	12	1	4	4	29
2062	Cane sugar refining	3	1	6	8	12	3	5	1	3
2063	Beet sugar	22	-	-	-	13	12	-	14	27
207	Candy and related products	1	3	1	3	13	1	17	3	22
208	Beverages	18	7	98	160	122	49	65	32	78
2082	Malt liquors	10	4	6	52	59	19	51	12	27
2084	Wines and brandy	(Z)	-	-	1	7	3	3	2	12
2085	Distilled liquor, except brandy	3	1	7	8	22	21	4	2	7
2086	Bottled and canned soft drinks	2	2	77	89	27	1	3	13	12
209	Miscellaneous foods and kindred products	11	24	31	36	133	33	70	10	120
2092	Soybean oil mills	3	5	5	6	29	11	24	2	11
2093	Vegetable oil mills, n.e.c.	(Z)	2	1	1	5	1	5	2	1
2094	Animal and marine fats and oils	1	9	9	1	28	5	13	3	27
2095	Roasted coffee	1	1	-	4	11	1	2	-	1
2096	Shortening and cooking oils	4	-	1	6	28	9	6	2	10
2097	Manufactured ice	1	6	11	15	12	1	5	-	26
2099	Food preparations, n.e.c.	1	1	4	3	12	3	8	1	39
21	Tobacco manufactures	1	2	-	2	12	1	7	3	3
2111	Cigarettes	1	1	-	1	7	1	5	1	1
22	Textile mill products	90	27	116	191	230	34	166	39	191
2211	Weaving mills, cotton	19	5	32	41	38	5	40	16	42
2221	Weaving mills, synthetics	5	4	10	15	17	5	28	7	24
2231	Weaving, finishing mills, wool	11	6	17	22	20	4	19	4	18
2241	Narrow fabric mills	(Z)	-	-	3	3	1	2	-	1
225	Knitting mills	4	2	6	15	38	4	10	1	23
2251	Women's hosiery, except socks	1	-	1	2	11	-	3	1	1
2256	Knit fabric mills	2	2	3	10	15	3	5	-	7
226	Textile finishing, except wool	40	6	27	52	54	10	25	6	40
2261	Finishing plants, cotton	27	4	18	25	21	3	15	5	17
2262	Finishing plants, synthetic	10	1	5	19	15	5	9	1	17
2269	Finishing plants, n.e.c.	3	1	4	8	18	2	1	-	6
227	Floor covering mills	4	2	7	11	15	1	8	1	11
228	Yarn and thread mills	5	1	13	18	23	1	18	3	9
2281	Yarn mills, except wool	1	-	7	8	9	1	12	2	4
229	Miscellaneous textile goods	3	1	4	14	22	3	16	1	23
2295	Coated fabric, not rubberized	1	1	-	5	8	2	5	-	4
2297	Scouring and combing plants	(Z)	-	2	2	6	-	4	1	6

See footnotes at end of table.

TABLE 6. Water Treated Prior to Use and Type of Treatment by Number of Establishments: 1964—Continued

A. INDUSTRY GROUPS AND INDUSTRIES—Continued

Code	Industry groups and industries	Water treated prior to use (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
24	Lumber and wood products	14	20	16	22	60	11	56	8	76
243	Millwork and related products	2	5	4	4	11	3	14	2	23
2431	Millwork plants	(Z)	1	1	-	2	-	1	-	2
2432	Veneer and plywood plants	1	4	3	4	9	3	13	2	21
244	Wooden containers	10	5	5	5	2	5	3	5	2
25	Furniture and fixtures	1	3	2	3	12	7	11	1	21
251	Household furniture	(Z)	3	2	3	9	4	6	1	9
2511	Wood furniture not upholstered	(Z)	2	1	1	5	2	4	1	6
26	Paper and allied products	988	37	200	292	281	146	142	48	143
2611	Pulp mills	162	3	17	21	17	11	6	2	4
2621	Paper mills, except building	574	16	110	165	103	68	50	23	46
2631	Paperboard mills	232	11	55	80	92	50	42	16	41
264	Paper and paperboard products	18	2	11	14	26	9	20	4	29
2641	Paper coating and glazing	14	1	6	5	16	5	9	4	7
2646	Pressed and molded pulp goods	1	-	-	2	2	-	2	-	10
265	Paperboard containers and boxes	1	3	1	2	18	4	12	1	9
2654	Sanitary food containers	(Z)	1	1	1	10	4	10	1	3
2661	Building paper and board mills	2	2	6	10	25	4	12	2	14
28	Chemicals and allied products	699	87	177	270	540	353	329	99	294
281	Basic chemicals	542	46	94	137	253	165	162	48	153
2812	Alkalies and chlorine	31	1	6	8	14	11	11	2	11
2815	Intermediate coal tar products	41	6	10	18	32	17	17	8	11
2818	Organic chemicals, n.e.c	348	22	39	49	81	54	54	13	35
2819	Inorganic chemicals, n.e.c	95	14	33	45	101	74	62	18	36
282	Fibers, plastics, rubbers	105	13	53	69	102	89	70	18	29
2821	Plastics materials and resins	38	8	22	31	61	51	44	14	27
2822	Synthetic rubber	15	2	7	12	16	14	10	-	2
2823	Cellulosic man-made fibers	33	1	14	15	12	7	8	1	-
2824	Organic fibers, noncellulosic	20	2	10	11	13	17	8	3	-
283	Drugs	7	8	5	18	46	44	27	16	8
284	Cleaning and toilet goods	4	2	2	11	31	22	16	2	11
2844	Toilet preparations	(Z)	-	-	4	7	7	6	-	1
2851	Paints and allied products	1	4	3	1	19	4	10	5	18
2861	Gum and wood chemicals	5	3	2	6	9	2	6	1	3
287	Agricultural chemicals	18	1	1	4	30	11	11	4	31
289	Miscellaneous chemical products	17	10	17	24	50	16	27	5	41
2891	Glue and gelatin	5	1	2	2	5	2	1	2	6
2892	Explosives	6	3	7	8	15	4	8	1	-
29	Petroleum and coal products	168	26	77	94	172	104	133	38	48
2911	Petroleum refining	167	26	75	90	158	96	128	38	16
295	Paving and roofing materials	1	-	2	3	13	5	5	-	25
2952	Asphalt felts and coatings	1	-	2	3	13	5	5	-	17
299	Petroleum and coal products, n.e.c	(Z)	-	-	1	1	3	-	-	7
30	Rubber and plastics products, n.e.c	24	21	17	49	111	38	80	16	103
3011	Tires and inner tubes	14	9	7	16	29	11	19	4	10
3079	Plastics products, n.e.c	6	4	4	10	31	10	20	3	56
31	Leather and leather products	2	4	6	10	24	6	10	1	50
3111	Leather tanning and finishing	2	4	6	10	23	6	10	1	47

See footnotes at end of table.

TABLE 6. Water Treated Prior to Use and Type of Treatment by Number of Establishments: 1964—Continued

A. INDUSTRY GROUPS AND INDUSTRIES—Continued

Code	Industry groups and industries	Water treated prior to use (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
32	Stone, clay and glass products	50	17	27	42	145	51	88	38	315
322	Pressed and blown glassware	7	4	4	4	50	16	31	11	29
3221	Glass containers	3	2	2	3	31	7	20	10	18
3229	Pressed and blown glass, n.e.c.	4	2	2	1	19	9	11	1	11
3241	Cement, hydraulic	9	6	7	16	21	7	13	7	104
325	Structural clay products	(Z)	-	1	1	2	-	4	-	7
326	Pottery and related products	(Z)	1	1	2	8	6	4	-	12
3261	Vitreous plumbing fixtures	(Z)	-	1	1	3	2	1	-	6
3264	Porcelain electrical supplies	(Z)	-	-	-	3	3	2	-	3
327	Concrete and plaster products	1	1	2	6	18	1	8	5	81
3275	Gypsum products	1	1	2	4	12	-	5	3	16
329	Nonmetallic mineral products	23	5	5	5	38	15	21	10	53
3291	Abrasive products	(Z)	1	1	1	6	2	6	-	8
3292	Asbestos products	1	1	1	1	13	8	8	4	16
3293	Gaskets and insulations	(Z)	1	-	1	4	1	-	-	4
33	Primary metal industries	699	40	87	134	309	105	200	47	340
331	Steel rolling and finishing	602	21	57	85	155	45	87	15	89
3312	Blast furnaces and steel mills	598	12	46	70	117	38	58	13	54
3316	Cold finishing of steel shapes	1	4	3	2	11	2	11	-	6
3317	Steel pipe and tube	(Z)	1	2	3	14	1	5	-	9
332	Iron and steel foundries	2	4	3	7	30	5	23	3	88
333	Primary nonferrous metal	83	5	13	20	35	16	24	9	23
3331	Primary copper	3	1	2	2	13	3	10	1	5
3333	Primary zinc	1	-	1	4	5	4	-	3	5
3334	Primary aluminum	10	3	8	11	8	4	9	4	6
3341	Secondary nonferrous metals	(Z)	-	1	1	5	5	3	1	11
335	Nonferrous rolling and drawing	10	6	9	13	49	26	42	14	77
3351	Copper rolling and drawing	7	4	6	10	11	4	9	6	24
3352	Aluminum rolling and drawing	1	2	-	2	11	11	12	5	17
3356	Rolling and drawing, n.e.c.	1	-	2	-	8	6	6	1	6
3357	Nonferrous wire drawing, etc.	1	-	1	1	19	5	15	2	30
336	Nonferrous foundries	1	1	-	2	11	4	6	2	24
339	Primary metal industries, n.e.c.	2	3	4	6	24	4	15	3	28
34	Fabricated metal products	6	17	15	24	138	46	89	26	264
3411	Metal cans	(Z)	-	-	-	5	-	5	-	18
342	Cutlery, hand tools, hardware	1	4	3	6	25	12	19	4	29
3421	Cutlery	(Z)	-	1	1	2	1	3	1	3
3423	Hand and edge tools	(Z)	1	-	-	4	-	6	-	5
3429	Hardware, n.e.c.	1	3	2	5	19	11	10	3	18
343	Plumbing and heating, except electric	1	3	1	2	12	6	7	2	15
344	Structural metal products	1	-	5	6	22	8	18	7	38
3443	Boiler shop products	1	-	3	3	9	4	10	5	16
3444	Sheet metal work	1	-	-	1	6	1	6	1	3
345	Screw machine products, bolts, etc.	(Z)	1	-	2	11	4	9	1	22
3461	Metal stampings	1	6	2	5	27	7	13	3	28
347	Metal services, n.e.c.	(Z)	-	-	1	13	4	1	3	61
3471	Plating and polishing	(Z)	-	-	1	13	4	1	3	55
3481	Fabricated wire products, n.e.c.	(Z)	1	1	1	7	1	1	-	12
349	Fabricated metal products, n.e.c.	1	2	3	1	16	4	16	6	41
3494	Valves and pipe fittings	(Z)	-	1	-	8	1	8	4	20

See footnotes at end of table.

TABLE 6. Water Treated Prior to Use and Type of Treatment by Number of Establishments: 1964—Continued

A. INDUSTRY GROUPS AND INDUSTRIES—Continued

Code	Industry groups and industries	Water treated prior to use (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
35	Machinery, except electrical	13	16	18	45	155	44	111	26	181
351	Engines and turbines	1	2	2	6	21	8	13	4	10
3522	Farm machinery and equipment	1	2	4	8	20	5	11	3	14
353	Construction and like equipment	6	6	4	6	29	9	21	3	23
356	General industrial machinery	1	3	1	8	29	8	26	4	42
3561	Pumps and compressors	1	-	-	2	7	4	7	-	13
3562	Ball and roller bearings	(Z)	-	-	6	10	1	9	2	12
3566	Power transmission equipment	(Z)	2	-	-	6	-	6	1	10
357	Office machines, n.e.c.	1	-	2	2	8	2	6	5	12
358	Service industry machines	1	1	2	6	20	7	10	4	18
3585	Refrigeration machinery	1	1	2	6	17	6	9	4	9
36	Electrical machinery	15	22	25	62	160	123	125	30	203
361	Electric distribution products	1	-	-	5	16	7	17	1	19
362	Electric industrial apparatus	3	4	1	4	19	8	20	3	29
363	Household appliances	3	3	1	6	28	14	13	1	29
3631	Household cooking equipment	(Z)	-	-	-	4	2	3	-	3
3632	Household refrigerators	2	-	-	2	5	3	2	1	9
3633	Household laundry equipment	(Z)	1	1	2	9	3	2	-	3
3634	Electric housewares and fans	(Z)	2	-	1	5	2	4	-	10
364	Lighting and wiring devices	1	1	-	4	9	5	7	1	38
3643	Current carrying devices	(Z)	-	-	1	2	-	2	1	11
365	Radio and TV receiving equipment	(Z)	-	-	1	6	5	5	3	11
366	Communication equipment	2	5	5	10	34	23	27	10	26
367	Electronic components	3	8	17	29	29	53	27	7	30
3673	Electron tubes, transmitting	(Z)	-	1	3	2	5	2	2	4
3674	Semiconductors	2	4	10	13	9	21	13	2	1
3679	Electronic components, n.e.c.	1	2	5	10	12	18	8	3	21
369	Electrical products, n.e.c.	1	1	1	3	19	8	9	4	21
3691	Storage batteries	(Z)	-	-	1	8	3	2	1	9
37	Transportation equipment	31	28	26	54	172	77	138	24	160
371	Motor vehicles and equipment	17	15	15	27	101	40	88	14	93
3717	Motor vehicles and parts	16	15	15	26	100	40	86	14	90
372	Aircraft and parts	13	10	7	21	49	33	37	6	34
3721	Aircraft	4	3	1	4	13	9	11	-	10
3722	Aircraft engines and parts	6	5	5	9	16	11	13	2	11
373	Ship and boat building	1	1	2	4	9	4	5	3	20
3731	Ship building and repairing	1	1	2	4	9	4	5	3	20
38	Instruments and related products	12	5	9	20	36	26	27	12	38
3811	Scientific instruments	(Z)	1	-	2	3	1	2	-	6
384	Medical instruments and supplies	(Z)	-	-	3	6	4	1	2	5
3861	Photographic equipment	10	1	6	11	11	8	8	3	5
387	Watches, clocks, and watchcases	(Z)	2	2	2	4	4	4	3	5
3871	Watches and clocks	(Z)	2	2	2	4	4	4	3	5
39	Miscellaneous manufacturing	2	3	2	10	14	6	13	2	46
391	Jewelry and silverware	(Z)	-	-	3	1	2	5	-	8
394	Toys and sporting goods	1	1	-	2	5	3	4	2	12
395	Pens, pencils, and office supplies	(Z)	1	-	1	2	-	1	-	3
398 399	Miscellaneous manufactures	1	1	2	3	6	1	2	-	11

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries whether or not separate figures are shown for the individual industries.

- Represents zero. (Z) Less than 500 million gallons.

[1]Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 19, 23, and 27. In 1959, such establishments had total water intake of 35 billion gallons of water, and employment of 338 thousand persons.

TABLE 6. Water Treated Prior to Use and Type of Treatment by Number of Establishments: 1964

B. WATER USE REGIONS, MAJOR INDUSTRY GROUPS, AND INDUSTRIES

Code	Water use region and major industry groups	Water treated prior to use (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
	United States, total[1]	2,933	463	1,013	1,665	3,475	1,400	2,226	590	3,533
	New England	169	27	77	169	133	63	157	37	318
20	Food and kindred products	3	2	9	15	13	3	18	2	21
22	Textile mill products	9	2	12	35	25	1	23	5	43
26	Paper and allied products	139	4	32	64	26	13	14	11	28
28	Chemicals and allied products	5	1	3	8	15	12	10	2	16
30	Rubber and plastics products, n.e.c.	2	2	3	9	9	4	14	2	24
31	Leather and leather products	(Z)	-	-	-	2	-	2	-	15
33	Primary metal industries	5	2	5	10	11	3	18	2	34
34	Fabricated metal products	(Z)	1	2	2	4	4	11	3	31
35	Machinery, except electrical	1	2	3	5	6	2	12	1	23
36	Electrical machinery	1	5	5	11	9	13	11	4	21
37	Transportation equipment	4	-	1	2	9	2	7	2	7
38	Instruments and related products	(Z)	2	1	3	-	2	3	3	9
39	Miscellaneous manufacturing	(Z)	2	1	5	1	2	9	-	15
	Delaware and Hudson	233	45	98	200	384	155	244	64	372
20	Food and kindred products	8	5	14	37	58	14	43	10	87
22	Textile mill products	7	2	5	21	41	5	6	1	18
26	Paper and allied products	44	3	25	33	32	11	17	5	23
28	Chemicals and allied products	121	17	24	45	98	56	50	18	41
29	Petroleum and coal products	20	2	6	9	14	12	11	1	4
30	Rubber and plastics products, n.e.c.	1	3	5	11	20	6	13	2	19
31	Leather and leather products	(Z)	-	-	3	4	-	3	1	11
32	Stone, clay, and glass products	12	2	2	4	11	7	15	6	33
33	Primary metal industries	12	4	5	15	40	13	25	9	42
34	Fabricated metal products	1	3	2	3	17	6	12	-	19
35	Machinery, except electrical	1	1	4	5	13	3	13	4	11
36	Electrical machinery	3	1	4	8	19	14	20	3	34
37	Transportation equipment	2	-	1	2	11	3	9	2	10
38	Instruments and related products	1	1	1	2	4	4	5	-	7
39	Miscellaneous manufacturing	1	1	-	2	2	-	1	1	10
	Chesapeake Bay	402	18	43	76	164	72	100	28	187
20	Food and kindred products	2	1	9	26	30	10	23	9	71
22	Textile mill products	1	2	1	5	9	4	5	2	3
26	Paper and allied products	40	1	10	13	17	11	6	4	7
28	Chemicals and allied products	32	2	13	17	31	17	18	4	15
29	Petroleum and coal products	(Z)	-	-	-	4	1	2	2	3
30	Rubber and plastics products, n.e.c.	3	2	1	1	5	2	5	1	5
31	Leather and leather products	1	1	3	2	7	1	1	-	3
32	Stone, clay, and glass products	3	-	1	1	12	3	4	2	21
33	Primary metal industries	317	2	3	4	12	7	7	1	14
34	Fabricated metal products	(Z)	2	1	2	5	-	7	-	13
35	Machinery, except electrical	1	-	-	3	5	2	2	-	8
36	Electrical machinery	(Z)	1	1	1	5	5	6	-	11
37	Transportation equipment	(Z)	4	-	1	9	5	6	2	5
38	Instruments and related products	(Z)	-	-	-	5	2	3	1	1
	Eastern Great Lakes-St. Lawrence	180	35	61	145	315	107	177	37	353
20	Food and kindred products	4	7	10	29	72	9	30	4	65
26	Paper and allied products	52	-	10	26	17	3	3	2	7
28	Chemicals and allied products	27	5	9	19	40	22	20	3	46
29	Petroleum and coal products	4	1	7	7	9	9	6	-	4
30	Rubber and plastics products, n.e.c.	8	3	2	8	20	7	11	1	11
32	Stone, clay, and glass products	1	1	3	5	10	4	4	4	32
33	Primary metal industries	65	2	4	12	36	8	23	3	52
34	Fabricated metal products	1	2	2	4	17	5	12	3	27
35	Machinery, except electrical	(Z)	3	1	2	14	6	9	4	30
36	Electrical machinery	1	6	3	9	22	12	20	2	23
37	Transportation equipment	7	4	5	12	43	14	28	8	42
	Ohio River	296	62	117	196	547	197	286	64	341
20	Food and kindred products	8	9	22	35	111	31	44	15	51
21	Tobacco manufactures	(Z)	-	-	1	4	-	2	-	-
22	Textile mill products	1	-	2	3	2	1	2	-	4
25	Furniture and fixtures	(Z)	-	-	-	4	1	2	-	4
26	Paper and allied products	29	5	8	11	29	9	9	2	15
28	Chemicals and allied products	50	16	25	45	81	54	43	11	30
29	Petroleum and coal products	6	1	7	8	15	9	9	2	8
30	Rubber and plastics products, n.e.c.	3	2	2	6	25	8	12	3	16
32	Stone, clay, and glass products	7	5	5	11	37	4	24	9	34

See footnotes at end of table.

TABLE 6. Water Treated Prior to Use and Type of Treatment by Number of Establishments: 1964—Continued

B. WATER USE REGIONS, MAJOR INDUSTRY GROUPS, AND INDUSTRIES—Continued

Code	Water use region and major industry groups	Water treated prior to use (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
	Ohio River--Continued									
33	Primary metal industries	174	14	34	42	99	30	59	7	48
34	Fabricated metal products	1	4	2	4	34	8	16	6	39
35	Machinery, except electrical	4	1	-	6	28	5	18	2	25
36	Electrical machinery	6	1	2	13	36	29	18	6	33
37	Transportation equipment	4	3	5	9	28	4	23	1	25
38	Instruments and related products	1	-	1	1	5	2	3	-	1
	Tennessee	102	8	47	54	74	39	43	13	60
20	Food and kindred products	1	-	4	3	10	4	4	1	7
22	Textile mill products	7	2	6	10	22	4	12	1	5
26	Paper and allied products	48	1	6	8	9	5	5	3	1
28	Chemicals and allied products	43	4	21	21	22	19	17	4	6
33	Primary metal industries	2	1	3	4	2	2	2	2	9
36	Electrical machinery	(Z)	-	3	3	1	3	1	-	5
	Southeast	365	46	164	204	277	107	248	71	355
20	Food and kindred products	5	5	16	26	57	6	37	8	108
21	Tobacco manufactures	(Z)	1	-	-	4	1	3	3	2
22	Textile mill products	62	15	88	110	116	16	112	29	103
24	Lumber and wood products	4	1	1	1	8	3	6	1	5
25	Furniture and fixtures	(Z)	1	1	1	2	1	3	-	3
26	Paper and allied products	227	6	32	32	27	31	22	5	8
28	Chemicals and allied products	51	9	9	17	29	26	24	8	29
29	Petroleum and coal products	3	-	1	1	3	3	4	2	2
30	Rubber and plastics products, n.e.c	(Z)	-	1	-	2	-	2	-	3
32	Stone, clay, and glass products	4	3	3	4	7	6	8	6	24
33	Primary metal industries	5	-	4	3	5	1	3	1	24
34	Fabricated metal products	(Z)	1	3	2	4	3	5	2	17
36	Electrical machinery	(Z)	1	3	3	8	6	9	3	13
37	Transportation equipment	2	2	1	2	2	1	4	2	5
	Western Great Lakes	147	47	96	149	420	151	216	60	409
20	Food and kindred products	9	3	22	32	105	19	44	8	87
22	Textile mill products	(Z)	1	-	2	2	-	1	-	3
24	Lumber and wood products	1	-	-	-	2	-	-	1	4
25	Furniture and fixtures	(Z)	1	1	1	3	2	3	-	2
26	Paper and allied products	81	8	24	36	50	19	18	6	18
28	Chemicals and allied products	21	4	10	16	45	30	25	14	20
29	Petroleum and coal products	9	3	4	6	13	7	5	-	7
30	Rubber and plastics products, n.e.c	1	1	1	3	9	3	5	2	12
31	Leather and leather products	(Z)	1	-	1	7	1	3	-	9
32	Stone, clay, and glass products	(Z)	2	3	1	8	6	3	-	21
33	Primary metal industries	16	8	16	22	42	17	25	7	54
34	Fabricated metal products	1	2	3	3	32	7	15	7	56
35	Machinery, except electrical	1	5	3	10	40	10	31	7	33
36	Electrical machinery	1	3	-	4	22	11	12	5	34
37	Transportation equipment	5	4	8	7	27	16	23	2	34
38	Instruments and related products	(Z)	-	-	3	7	2	1	-	9
	Upper Mississippi	103	37	79	104	307	122	158	39	253
20	Food and kindred products	28	14	29	30	121	33	59	17	120
22	Textile mill products	(Z)	-	-	1	5	2	-	-	-
26	Paper and allied products	38	-	17	22	25	12	14	1	8
28	Chemicals and allied products	12	6	10	12	32	23	21	4	7
29	Petroleum and coal products	6	1	3	3	5	2	5	2	3
30	Rubber and plastics products, n.e.c	1	1	-	3	7	3	6	1	5
32	Stone, clay, and glass products	3	1	5	5	15	4	8	-	20
33	Primary metal industries	5	3	4	6	17	4	6	2	17
34	Fabricated metal products	(Z)	1	-	3	13	8	7	1	20
35	Machinery, except electrical	4	3	7	10	32	11	15	6	27
36	Electrical machinery	1	2	-	1	16	7	7	2	13
37	Transportation equipment	1	2	1	4	9	4	6	1	4
38	Instruments and related products	1	2	2	2	6	6	2	2	1
	Lower Mississippi	55	26	29	51	61	35	47	11	91
20	Food and kindred products	5	5	11	25	28	6	15	3	46
22	Textile mill products	1	2	-	1	2	-	3	-	-
24	Lumber and wood products	(Z)	2	-	1	2	2	4	-	2
26	Paper and allied products	23	3	3	5	7	4	3	1	3
28	Chemicals and allied products	17	6	12	11	12	13	13	4	12
29	Petroleum and coal products	3	1	2	1	4	5	2	1	1
30	Rubber and plastics products, n.e.c	3	3	-	2	2	2	2	-	-

See footnotes at end of table.

TABLE 6. Water Treated Prior to Use and Type of Treatment by Number of Establishments: 1964—Continued

B. WATER USE REGIONS, MAJOR INDUSTRY GROUPS, AND INDUSTRIES—Continued

Code	Water use region and major industry groups	Water treated prior to use (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
	Missouri	30	18	29	42	118	45	71	18	114
20	Food and kindred products	11	8	11	20	59	16	34	10	76
26	Paper and allied products	1	1	2	2	3	-	3	1	1
28	Chemicals and allied products	10	4	5	5	15	9	10	1	6
29	Petroleum and coal products	6	1	8	8	16	9	11	3	2
32	Stone, clay, and glass products	(Z)	-	-	1	4	2	1	1	9
33	Primary metal industries	(Z)	-	-	1	4	1	2	-	4
36	Electrical machinery	(Z)	-	-	-	4	3	2	-	2
37	Transportation equipment	1	3	1	3	5	3	3	1	1
	Arkansas White and Red	99	17	36	48	113	47	89	26	111
20	Food and kindred products	2	3	11	9	37	6	20	-	44
24	Lumber and wood products	1	4	2	5	6	-	4	1	6
26	Paper and allied products	56	2	7	4	8	9	10	-	3
28	Chemicals and allied products	11	3	4	8	18	9	10	6	15
29	Petroleum and coal products	16	4	9	11	30	12	26	10	4
32	Stone, clay, and glass products	(Z)	-	1	2	5	3	5	3	13
33	Primary metal industries	11	-	2	2	1	2	4	1	5
34	Fabricated metal products	(Z)	-	-	-	1	2	-	2	4
36	Electrical machinery	(Z)	1	-	3	1	1	1	1	4
	Western Gulf	434	26	55	84	155	75	104	45	127
20	Food and kindred products	3	2	7	11	29	11	19	4	46
22	Textile mill products	1	-	1	1	2	-	-	1	3
26	Paper and allied products	9	-	1	1	2	1	-	2	1
28	Chemicals and allied products	278	9	22	35	53	34	34	14	23
29	Petroleum and coal products	73	9	18	25	35	16	32	11	3
32	Stone, clay, and glass products	(Z)	2	-	-	4	1	1	4	26
35	Machinery, except electrical	(Z)	-	-	-	3	-	2	2	7
36	Electrical machinery	(Z)	-	1	1	4	3	2	2	1
37	Transportation equipment	1	1	2	2	5	4	5	2	3
	Colorado Basin	8	2	3	6	19	13	18	3	14
20	Food and kindred products	2	1	-	-	4	3	2	2	3
28	Chemicals and allied products	2	-	-	1	2	2	3	-	1
29	Petroleum and coal products	1	-	1	1	1	1	1	-	-
33	Primary metal industries	3	1	1	-	7	1	6	1	3
	Great Basin	9	1	2	5	25	8	16	3	17
20	Food and kindred products	2	-	-	1	8	1	4	1	11
	California	71	33	37	72	270	123	162	40	190
20	Food and kindred products	11	15	12	27	109	25	59	18	90
24	Lumber and wood products	1	3	3	3	14	3	9	-	11
26	Paper and allied products	10	1	3	5	14	6	7	1	10
28	Chemicals and allied products	11	1	5	5	34	18	23	5	11
29	Petroleum and coal products	16	2	7	9	14	12	10	2	3
30	Rubber and plastics products, n.e.c.	(Z)	3	1	4	5	1	3	-	1
32	Stone, clay, and glass products	11	1	2	4	22	9	10	3	20
33	Primary metal industries	6	1	2	4	13	7	7	3	5
34	Fabricated metal products	(Z)	-	-	-	3	3	-	2	15
35	Machinery, except electrical	(Z)	-	-	-	5	3	1	-	2
36	Electrical machinery	(Z)	-	2	3	10	11	12	3	7
37	Transportation equipment	3	4	-	3	17	14	15	-	7
38	Instruments and related products	(Z)	-	-	1	2	3	2	1	-
	Pacific Northwest	208	14	33	52	76	31	77	27	181
20	Food and kindred products	8	2	2	5	24	7	22	12	79
24	Lumber and wood products	7	7	9	10	20	3	30	5	39
26	Paper and allied products	180	2	19	29	15	10	11	4	10
28	Chemicals and allied products	7	-	1	1	8	4	4	1	12
29	Petroleum and coal products	2	-	1	2	2	3	4	1	-
32	Stone, clay, and glass products	(Z)	-	-	2	1	-	-	-	13
33	Primary metal industries	4	2	1	2	4	1	3	4	16
	Cumberland	9	-	5	5	11	6	7	2	15
28	Chemicals and allied products	3	-	4	4	4	5	4	-	2
	Alaska	10	-	1	1	1	2	1	-	3
	Hawaii	3	1	1	2	5	2	5	2	20
20	Food and kindred products	2	-	-	1	3	1	3	2	19

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries.

- Represents zero.
(Z) Less than 500 million gallons. n.e.c. Not elsewhere classified.
[1]Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 23 and 27. In 1959, such establishments had total water intake of 23 billion gallons, gross water use of 58 billion gallons, discharge of 22 billion gallons of water, and 152 thousand employees. Data for Major Group 19 is included in all total figures but was considered too insignificant to publish.

TABLE 6. Water Treated Prior to Use and Type of Treatment by Number of Establishments: 1964

C. STATES AND MAJOR INDUSTRY GROUPS

Code	States and major industry groups	Water treated prior to use (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
	United States total[1]	2,933	463	1,013	1,665	3,475	1,400	2,226	590	3,533
	New England division	169	27	77	174	134	64	160	40	323
	Maine	77	3	8	20	10	6	10	5	30
26	Paper and allied products	76	1	7	15	4	4	4	4	3
	New Hampshire	25	4	3	13	3	6	9	1	16
22	Textile mill products	2	1	1	3	1	-	2	-	3
	Vermont	2	-	1	8	4	2	7	3	10
26	Paper and allied products	2	-	1	4	-	-	-	-	2
	Massachusetts	46	11	45	87	60	25	60	18	133
20	Food and kindred products	1	-	6	9	6	1	12	2	5
22	Textile mill products	5	-	6	16	12	-	11	3	20
26	Paper and allied products	35	2	20	34	16	5	3	5	12
28	Chemicals and allied products	2	-	2	4	9	5	4	1	11
30	Rubber and plastics produces, n.e.c	1	2	1	9	3	1	6	-	11
33	Primary metal industries	1	-	-	1	2	1	5	1	13
36	Electrical machinery	1	4	4	7	5	8	4	3	11
	Rhode Island	3	2	5	10	15	5	16	3	32
22	Textile mill products	1	1	2	8	7	1	7	2	5
	Connecticut	16	7	15	36	42	20	58	10	102
20	Food and kindred products	(Z)	-	1	2	2	1	3	-	4
22	Textile mill products	1	-	2	6	5	-	2	-	6
26	Paper and allied products	5	1	3	6	5	3	4	1	6
28	Chemicals and allied products	2	-	1	3	4	3	5	1	2
33	Primary metal industries	4	2	5	8	6	1	11	1	13
	Middle Atlantic division	449	69	148	329	651	244	380	96	666
	New York	88	13	47	110	195	60	118	34	249
20	Food and kindred products	2	6	11	26	56	9	26	5	64
22	Textile mill products	1	-	2	7	13	2	2	1	9
26	Paper and allied products	50	-	16	32	20	2	6	5	16
28	Chemicals and allied products	17	1	7	10	24	11	15	5	26
30	Rubber and plastics products, n.e.c	2	-	-	1	5	-	4	-	4
33	Primary metal industries	9	2	-	9	18	5	12	3	28
35	Machinery, except electrical	1	-	1	3	8	3	10	5	13
36	Electrical machinery	1	3	3	8	12	10	8	4	24
38	Instruments and related products	8	-	3	7	9	8	8	2	8
	New Jersey	123	25	35	86	184	85	108	31	145
20	Food and kindred products	5	2	5	16	21	8	16	7	24
22	Textile mill products	3	1	1	7	17	2	3	-	8
26	Paper and allied products	9	2	8	11	11	7	6	1	5
28	Chemicals and allied products	85	14	11	31	65	37	32	11	23
29	Petroleum and coal products	7	1	1	2	6	6	6	-	3
33	Primary metal industries	1	-	-	3	18	6	10	4	18
36	Electrical machinery	1	-	3	3	10	8	11	-	14
37	Transportation equipment	1	-	1	1	5	1	2	1	3
	Pennsylvania	238	31	66	133	272	99	154	31	272
20	Food and kindred products	3	1	3	20	33	7	19	2	46
22	Textile mill products	2	2	3	10	15	4	6	2	6
26	Paper and allied products	42	1	12	14	20	9	9	3	13
28	Chemicals and allied products	15	3	10	14	33	15	11	4	19
29	Petroleum and coal products	13	-	5	9	13	8	6	1	4
30	Rubber and plastics products, n.e.c	1	3	4	7	13	4	8	-	13
31	Leather and leather products	1	1	2	4	6	1	2	-	1
32	Stone, clay, and glass products	5	3	1	5	13	6	10	8	36
33	Primary metal industries	152	9	21	33	62	20	32	5	47
34	Fabricated metal products	1	3	1	1	20	3	15	3	24
35	Machinery, except electrical	1	1	2	9	12	4	8	2	13
36	Electrical machinery	2	1	2	4	14	13	14	-	27
37	Transportation equipment	1	3	-	2	9	2	7	-	8
38	Instruments and related products	(Z)	-	-	-	5	3	5	1	3
	East North Central division	401	122	225	368	1,122	399	587	136	923
	Ohio	140	32	58	99	318	112	169	34	244
20	Food and kindred products	4	3	9	18	62	11	24	4	40
26	Paper and allied products	21	4	5	8	22	6	5	2	10
28	Chemicals and allied products	17	7	9	21	44	27	24	4	29

See footnotes at end of table.

TABLE 6. Water Treated Prior to Use and Type of Treatment by Number of Establishments: 1964—Continued

C. STATES AND MAJOR INDUSTRY GROUPS—Continued

Code	States and major industry groups	Water treated prior to use (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
	East North Central division--Continued									
	Ohio--Continued									
29	Petroleum and coal products	4	1	7	7	9	9	6	-	5
30	Rubber and plastics products, n.e.c.	8	3	3	8	30	13	14	2	13
32	Stone, clay, and glass products	1	3	1	5	17	4	12	5	19
33	Primary metal industries	75	3	14	14	52	13	35	5	31
36	Electrical machinery	2	4	2	4	17	9	13	4	13
37	Transportation equipment	4	-	3	6	21	6	18	6	26
	Indiana	29	24	30	52	181	68	95	26	110
20	Food and kindred products	4	5	8	11	42	13	16	4	7
28	Chemicals and allied products	4	4	4	6	17	13	11	6	6
30	Rubber and plastics products, n.e.c.	1	1	-	1	8	2	5	2	3
32	Stone, clay, and glass products	1	1	3	4	12	1	5	1	6
33	Primary metal industries	9	5	5	8	23	11	15	3	14
35	Machinery, except electrical	1	1	-	1	18	2	10	2	9
36	Electrical machinery	3	1	-	5	20	13	14	3	12
37	Transportation equipment	2	4	2	6	13	5	9	-	21
	Illinois	61	37	58	96	266	99	137	34	228
20	Food and kindred products	13	4	16	24	68	21	26	6	56
26	Paper and allied products	5	2	4	8	18	3	9	2	5
28	Chemicals and allied products	9	7	8	14	36	25	26	11	12
29	Petroleum and coal products	12	2	6	7	11	4	6	1	6
33	Primary metal industries	12	4	10	12	25	9	14	4	19
34	Fabricated metal products	1	2	2	2	22	6	12	2	30
35	Machinery, except electrical	3	4	4	8	27	8	19	4	26
36	Electrical machinery	1	3	-	2	17	8	8	3	28
	Michigan	91	13	36	63	187	67	106	19	201
26	Paper and allied products	47	4	10	25	26	10	9	3	6
28	Chemicals and allied products	24	-	3	7	22	12	11	2	15
29	Petroleum and coal products	2	1	1	2	3	5	3	-	2
33	Primary metal industries	5	-	3	6	18	7	8	3	30
37	Transportation equipment	10	3	9	10	41	18	32	3	34
	Wisconsin	80	16	43	58	170	53	80	23	140
20	Food and kindred products	4	3	5	12	70	7	28	13	49
26	Paper and allied products	69	2	24	26	27	15	12	2	10
33	Primary metal industries	2	4	3	5	9	3	6	-	21
35	Machinery, except electrical	1	3	4	7	21	7	16	3	10
	West North Central division	77	36	72	88	267	101	157	41	260
	Minnesota	20	3	11	11	59	19	33	16	72
20	Food and kindred products	7	3	5	4	35	6	17	6	47
26	Paper and allied products	7	-	4	3	7	3	2	-	2
	Iowa	16	11	17	20	55	24	29	4	49
20	Food and kindred products	13	6	12	11	30	11	20	2	27
28	Chemicals and allied products	1	1	1	2	5	6	2	-	-
	Missouri	16	10	24	34	75	34	51	8	78
20	Food and kindred products	3	5	13	17	23	13	17	1	33
28	Chemicals and allied products	8	1	4	7	16	9	12	5	4
32	Stone, clay, and glass products	1	-	2	2	6	3	4	-	5
37	Transportation equipment	1	2	1	3	8	5	6	1	1
	North Dakota	1	-	1	1	3	1	1	-	5
	South Dakota	1	-	3	3	5	1	4	1	5
20	Food and kindred products	1	-	3	3	5	1	4	1	4
	Nebraska	9	5	5	3	26	5	13	3	28
20	Food and kindred products	1	3	4	2	19	-	9	3	18
	Kansas	14	7	11	16	44	17	26	9	23
20	Food and kindred products	1	2	2	1	17	1	7	-	9
28	Chemicals and allied products	5	4	3	4	9	5	7	-	6
29	Petroleum and coal products	5	-	5	5	10	4	8	4	-
32	Stone, clay, and glass products	1	-	-	2	2	3	1	1	5
	South Atlantic division	728	62	211	273	407	162	310	86	415
	Delaware	28	1	9	10	19	5	15	3	17
	Maryland	343	8	13	19	48	14	36	8	70

See footnotes at end of table.

TABLE 6. Water Treated Prior to Use and Type of Treatment by Number of Establishments: 1964—Continued

C. STATES AND MAJOR INDUSTRY GROUPS—Continued

Code	States and major industry groups	Water treated prior to use (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
	South Atlantic division--Continued									
	Virginia	50	7	34	48	60	42	38	15	37
20	Food and kindred products	1	-	3	9	6	-	4	4	11
26	Paper and allied products	18	2	6	6	9	7	4	3	1
28	Chemicals and allied products	21	2	12	15	17	14	7	1	4
	West Virginia	31	10	21	27	39	19	21	5	28
28	Chemicals and allied products	23	6	12	18	19	16	11	3	7
	North Carolina	77	5	49	60	80	23	68	24	86
20	Food and kindred products	2	-	1	5	8	-	8	2	20
22	Textile mill products	19	3	35	42	51	7	38	11	44
26	Paper and allied products	49	-	6	5	3	5	4	3	1
28	Chemicals and allied products	7	-	5	5	7	6	5	4	1
	South Carolina	50	14	29	37	37	18	49	13	55
22	Textile mill products	23	10	19	28	25	4	31	7	32
	Georgia	69	5	38	43	69	16	47	10	83
20	Food and kindred products	1	2	4	4	13	-	10	1	29
22	Textile mill products	11	2	20	26	31	2	19	3	24
26	Paper and allied products	51	1	8	8	11	10	7	1	2
28	Chemicals and allied products	3	-	1	1	5	1	2	-	12
	Florida	80	12	18	29	54	25	35	8	35
20	Food and kindred products	2	2	8	16	27	5	15	3	22
26	Paper and allied products	47	2	7	7	8	7	6	-	-
28	Chemicals and allied products	30	4	-	1	9	7	9	2	4
	East South Central division	240	47	85	125	195	100	141	41	211
	Kentucky	26	15	22	37	73	35	39	9	33
20	Food and kindred products	2	3	10	13	23	11	12	6	13
28	Chemicals and allied products	14	7	9	12	17	10	8	2	2
33	Primary metal industries	3	2	2	3	5	3	4	1	2
	Tennessee	86	19	33	49	74	34	40	11	77
20	Food and kindred products	1	4	2	5	15	7	5	1	23
22	Textile mill products	5	4	4	7	17	3	9	1	5
26	Paper and allied products	29	3	3	8	10	4	6	1	2
28	Chemicals and allied products	40	3	18	19	20	16	15	4	8
	Alabama	85	4	25	30	33	16	29	14	71
22	Textile mill products	4	-	9	11	10	-	19	6	2
26	Paper and allied products	68	-	7	7	4	6	3	-	2
28	Chemicals and allied products	7	3	2	6	7	6	6	3	6
33	Primary metal industries	5	1	3	2	6	2	3	2	16
	Mississippi	43	9	5	9	15	15	23	7	30
28	Chemicals and allied products	2	2	-	3	2	5	3	1	3
	West South Central division	541	46	107	154	258	130	185	66	265
	Arkansas	33	8	12	16	24	12	24	3	39
20	Food and kindred products	1	-	3	5	11	3	8	-	22
28	Chemicals and allied products	1	1	1	2	2	2	-	-	2
	Louisiana	81	9	37	46	54	31	39	7	74
20	Food and kindred products	4	1	13	20	19	3	8	1	31
26	Paper and allied products	35	-	5	3	4	7	2	-	2
28	Chemicals and allied products	30	6	15	17	17	13	17	4	12
29	Petroleum and coal products	12	1	2	4	10	7	9	1	3
	Oklahoma	6	3	4	8	26	9	20	3	22
29	Petroleum and coal products	5	1	3	3	11	4	10	1	2
	Texas	421	26	54	84	154	78	102	53	130
22	Textile mill products	1	-	1	1	2	-	-	1	4
26	Paper and allied products	9	-	1	1	2	2	1	2	1
29	Petroleum and coal products	69	11	20	26	36	17	31	16	3
37	Transportation equipment	1	1	2	2	5	4	5	2	3
	Mountain division	59	9	20	33	103	42	69	21	100
	Montana	7	2	3	8	14	5	7	6	8
20	Food and kindred products	2	1	-	2	3	2	2	2	2
	Idaho	21	2	3	4	13	4	8	5	23

See footnotes at end of table.

TABLE 6. Water Treated Prior to Use and Type of Treatment by Number of Establishments: 1964—Continued

C. STATES AND MAJOR INDUSTRY GROUPS—Continued

Code	States and major industry groups	Water treated prior to use (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
	Mountain division--Continued									
	Wyoming	3	-	4	3	7	5	3	2	4
29	Petroleum and coal products	2	-	3	2	6	2	3	-	-
	Colorado	14	2	6	8	24	7	17	4	38
29	Petroleum and coal products	1	1	2	2	4	1	3	1	1
	New Mexico	(Z)	-	-	-	3	3	2	-	2
	Arizona	3	2	2	4	16	9	15	1	7
33	Primary metal industries	3	1	1	-	7	1	6	1	2
	Utah	9	1	2	5	23	8	14	3	13
	Pacific division	267	45	67	121	334	155	235	63	370
	Washington	149	5	18	27	42	19	37	9	81
20	Food and kindred products	1	1	2	2	14	5	13	5	33
26	Paper and allied products	140	1	11	18	10	7	7	3	5
28	Chemicals and allied products	4	-	1	1	4	2	1	-	6
	Oregon	34	6	11	20	17	8	30	11	77
24	Lumber and wood products	2	5	5	8	8	3	19	3	30
26	Paper and allied products	26	1	6	9	4	3	4	-	5
32	Stone, clay, and glass products	(Z)	-	-	1	-	-	-	-	3
	California	71	33	36	71	269	124	162	41	189
20	Food and kindred products	12	15	12	27	109	26	59	19	90
26	Paper and allied products	10	1	3	5	14	6	7	1	10
28	Chemicals and allied products	11	1	5	5	34	18	23	5	11
29	Petroleum and coal products	15	2	7	9	14	12	10	2	3
32	Stone, clay, and glass products	11	1	2	4	22	9	10	3	21
37	Transportation equipment	3	4	-	3	17	14	15	-	7
	Alaska and Hawaii	13	1	2	3	6	4	6	2	23

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries.

- Represents zero. (Z) Less than 500 million gallons.

[1]Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 23 and 27. In 1959, such establishments had total water intake of 23 billion gallons, gross water use of 58 billion gallons, discharge of 22 billion gallons of water, and 152 thousand employees. Data for Major Group 19 is included in all total figures but was considered too insignificant to publish.

TABLE 7. Water Treated Prior to Recirculation or Reuse and Type of Treatment by Number of Establishments: 1964

A. INDUSTRY GROUPS AND INDUSTRIES

Code	Industry groups and industries	Gross water used, including recirculation or reuse (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
	United States, total[1]	28,811	355	256	494	819	255	1,700	1,701	6,071
20	Food and kindred products	1,124	49	34	74	188	32	304	304	1,822
201	Meat products	141	4	2	7	32	4	50	50	366
2011	Meat slaughtering plants	124	3	1	5	25	4	35	35	184
2013	Meat processing plants	7	1	1	1	5	-	9	9	39
2015	Poultry dressing plants	10	-	-	1	2	-	6	6	143
202	Dairies	76	11	1	11	48	6	87	87	425
2021	Creamery butter	7	1	-	-	3	-	10	10	48
2022	Natural and process cheese	3	-	1	-	2	-	2	2	35
2023	Condensed and evaporated milk	21	1	-	3	8	2	7	7	76
2024	Ice cream and frozen desserts	8	3	-	-	3	1	8	8	41
2026	Fluid milk	37	6	-	8	32	3	60	60	225
203	Canned and frozen foods	131	9	2	9	16	2	34	34	359
2032	Canned specialties	13	-	-	-	1	-	2	2	32
2033	Canned fruits and vegetables	45	4	1	4	8	1	16	16	187
2034	Dehydrated foods products	28	-	-	3	-	-	1	1	15
2035	Pickles, sauces, salad dressings	4	-	-	-	5	1	6	6	23
2037	Frozen fruits and vegetables	40	5	1	2	2	-	9	9	76
204	Grain mills	81	4	5	6	7	5	6	6	55
2041	Flour mills	1	-	-	-	2	1	1	1	18
2046	Wet corn milling	71	1	4	5	4	3	2	2	9
205	Bakery products	8	3	-	1	4	3	13	13	45
2051	Bread and related products	1	-	-	-	1	2	9	9	34
2052	Biscuit, crackers, and cookies	6	3	-	1	3	1	4	4	11
206	Sugar	368	5	2	1	3	2	11	11	83
2061	Raw cane sugar	226	4	2	-	2	-	4	4	35
2062	Cane sugar refining	64	1	-	1	1	2	2	2	13
2063	Beet sugar	78	-	-	-	-	-	5	5	35
207	Candy and related products	33	2	2	-	4	-	11	11	33
2073	Chewing gum	1	-	-	-	-	-	2	2	2
208	Beverages	158	5	15	30	50	6	54	54	216
2082	Malt liquors	88	3	8	19	28	3	40	40	63
2083	Malt	16	-	-	1	1	-	3	3	15
2084	Wines and brandy	4	1	-	1	3	1	4	4	12
2085	Distilled liquor, except brandy	44	1	1	1	12	2	5	5	19
2086	Bottled and canned soft drinks	5	-	4	6	6	-	2	2	96
2087	Flavorings	1	-	2	2	-	-	-	-	11
209	Miscellaneous foods and kindred products	128	6	5	9	24	4	38	38	240
2092	Soybean oil mills	24	4	4	3	7	2	14	14	27
2093	Vegetable oil mills, n.e.c	5	1	-	-	1	1	4	4	4
2094	Animal and marine fats and oils	6	-	-	1	6	-	3	3	61
2096	Shortening and cooking oils	47	1	-	1	6	-	11	11	27
2099	Food preparations, n.e.c	16	-	1	1	3	1	6	6	49
21	Tobacco manufactures	19	-	-	1	3	-	7	7	7
2111	Cigarettes	18	-	-	1	3	-	6	6	2
2141	Tobacco stemming and redrying	1	-	-	-	-	-	1	1	2
22	Textile mill products	257	22	8	16	36	2	94	94	467
2211	Weaving mills, cotton	80	6	-	2	10	1	33	33	82
2221	Weaving mills, synthetics	23	4	3	2	2	-	19	19	48
2231	Weaving, finishing mills, wool	9	3	2	1	5	-	7	7	54
225	Knitting mills	49	-	1	1	-	-	7	7	63
226	Textile finishing, except wool	44	3	1	3	6	-	7	7	113
2261	Finishing plants, cotton	33	2	1	2	4	-	4	4	48
227	Floor covering mills	22	3	1	2	4	-	4	4	23
2271	Woven carpets and rugs	17	1	-	-	1	-	3	3	8
2272	Tufted carpets and rugs	5	2	1	2	3	-	1	1	14

See footnotes at end of table.

TABLE 7. Water Treated Prior to Recirculation or Reuse and Type of Treatment by Number of Establishments: 1964—Continued

A. INDUSTRY GROUPS AND INDUSTRIES—Continued

Code	Industry groups and industries	Gross water used, including recirculation or reuse (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
22	Textile mill products--Continued									
228	Yarn and thread mills	12	2	-	1	5	-	10	10	33
2281	Yarn mills, except wool	6	1	-	-	1	-	5	5	15
2283	Wool yarn mills	3	-	-	1	-	-	3	3	7
2284	Thread mills	3	1	-	-	3	-	2	2	7
229	Miscellaneous textile goods	18	1	-	3	3	-	7	7	46
2295	Coated fabric, not rubberized	7	1	-	1	1	-	3	3	10
24	Lumber and wood products	183	7	5	10	12	-	34	34	133
242	Sawmills and planing mills	142	4	3	7	8	-	19	19	68
2421	Sawmills and planing mills	142	4	3	7	8	-	19	19	65
243	Millwork and related products	17	1	1	1	2	-	9	9	36
2432	Veneer and plywood plants	17	-	1	1	2	-	8	8	32
249	Miscellaneous wood products	24	2	1	2	2	-	4	4	22
2499	Wood products, n.e.c	23	2	1	2	1	-	3	3	14
25	Furniture and fixtures	3	3	-	-	4	1	4	4	34
251	Household furniture	1	3	-	-	3	1	2	2	16
2511	Wood furniture not upholstered	1	2	-	-	3	-	2	2	10
259	Furniture and fixtures, n.e.c	1	-	-	-	-	-	2	2	4
26	Paper and allied products	5,966	24	63	125	54	16	77	78	358
2611	Pulp mills	892	-	2	5	-	1	3	3	24
2621	Paper mills, except building	3,049	11	33	67	24	11	33	34	141
2631	Paperboard mills	1,838	8	22	35	14	2	13	13	104
264	Paper and paperboard products	107	2	1	5	7	-	15	15	50
2641	Paper coating and glazing	67	1	-	1	5	-	9	9	20
2646	Pressed and molded pulp goods	9	-	-	-	-	-	1	1	13
265	Paperboard containers and boxes	11	2	1	2	5	1	7	7	15
2654	Sanitary food containers	5	-	-	1	2	1	7	7	5
2661	Building paper and board mills	76	1	4	11	4	1	6	6	24
28	Chemicals and allied products	6,745	61	37	59	92	37	329	329	618
281	Basic chemicals	5,124	29	23	27	42	20	170	170	293
2812	Alkalies and chlorine	602	-	3	3	7	3	9	9	17
2815	Intermediate coal tar products	275	5	4	3	3	1	22	22	27
2818	Organic chemicals, n.e.c	2,960	11	9	11	15	9	55	55	70
2819	Inorganic chemicals, n.e.c	1,071	11	5	4	14	6	51	51	116
282	Fibers, plastics, rubbers	1,043	12	8	16	17	9	67	67	94
2821	Plastics materials and resins	455	11	6	13	13	6	39	39	64
2822	Synthetic rubber	176	1	1	1	2	1	15	15	8
2823	Cellulosic man-made fibers	205	-	-	-	-	-	6	6	12
2824	Organic fibers, noncellulosic	206	-	1	2	2	2	7	7	10
283	Drugs	114	8	1	6	12	5	33	33	26
2834	Pharmaceutical preparations	72	7	1	6	11	4	26	26	19
284	Cleaning and toilet goods	42	1	2	5	3	-	17	17	33
2841	Soap and other detergents	29	1	-	3	1	-	8	8	19
2844	Toilet preparations	5	-	1	2	1	-	6	6	6
2851	Paints and allied products	7	3	1	-	7	-	11	11	26
2861	Gum and wood chemicals	111	3	1	-	1	1	2	2	11
287	Agricultural chemicals	205	2	-	-	2	-	7	7	62
2871	Fertilizers	197	2	-	-	2	-	5	5	50

See footnotes at end of table.

TABLE 7. Water Treated Prior to Recirculation or Reuse and Type of Treatment by Number of Establishments: 1964—Continued

A. INDUSTRY GROUPS AND INDUSTRIES—Continued

Code	Industry groups and industries	Gross water used, including recirculation or reuse (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
28	Chemicals and allied products--Continued									
289	Miscellaneous chemical products	99	3	1	5	8	2	22	22	73
2891	Glue and gelatin	16	-	-	1	2	1	2	2	11
2892	Explosives	16	-	-	-	2	-	6	6	13
2899	Chemical preparations, n.e.c	49	2	1	4	3	1	13	13	28
29	Petroleum and coal products	5,991	21	24	34	34	19	135	135	105
2911	Petroleum refining	5,979	20	23	30	30	15	130	130	62
295	Paving and roofing materials	13	-	1	4	4	3	4	4	35
2952	Asphalt felts and coatings	12	-	1	4	4	3	4	4	27
30	Rubber and plastics products, n.e.c	301	9	5	15	21	11	45	45	208
3011	Tires and inner tubes	159	1	1	2	4	4	13	13	33
3069	Rubber products, n.e.c	101	4	1	5	8	5	12	12	91
3079	Plastics products, n.e.c	37	3	2	6	6	1	16	16	77
31	Leather and leather products	13	3	1	3	6	1	4	4	71
3111	Leather tanning and finishing	12	3	1	3	6	1	4	4	67
32	Stone, clay, and glass products	283	15	10	14	50	13	73	73	399
3211	Flat glass	72	-	1	1	4	2	7	7	6
322	Pressed and blown glassware	41	8	2	4	18	5	29	29	52
3221	Glass containers	14	4	1	3	9	1	18	18	32
3229	Pressed and blown glass, n.e.c	28	4	1	1	9	4	11	11	20
3241	Cement, hydraulic	94	2	2	1	6	2	6	6	123
325	Structural clay products	1	-	-	-	1	-	3	3	7
326	Pottery and related products	5	-	-	-	2	-	5	5	20
327	Concrete and plaster products	14	-	1	3	4	2	4	4	88
3275	Gypsum products	2	-	-	2	3	1	3	3	25
3281	Cut stone and stone products	2	-	-	-	1	-	-	-	16
329	Nonmetallic mineral products	45	5	3	5	13	1	16	16	77
3291	Abrasive products	4	2	-	-	3	-	4	4	12
3292	Asbestos products	13	-	1	1	1	-	6	6	27
3293	Gaskets and insulations	3	1	-	-	2	-	-	-	6
3295	Minerals, ground or treated	8	1	1	-	-	-	-	-	20
33	Primary metal industries	6,556	32	31	36	86	33	142	142	539
331	Steel rolling and finishing	5,644	11	18	22	33	11	57	57	194
3312	Blast furnaces and steel mills	5,362	7	16	19	25	10	37	37	127
3315	Steel wire drawing, etc	3	1	-	-	2	-	7	7	21
332	Iron and steel foundries	33	7	3	1	14	2	18	18	101
3321	Gray iron foundries	20	3	2	1	4	-	9	9	54
3322	Malleable iron foundries	4	2	-	-	3	-	3	3	7
3323	Steel foundries	9	2	1	-	7	2	6	6	40
333	Primary nonferrous metal	690	4	3	5	11	7	19	19	45
3331	Primary copper	160	1	2	-	6	2	8	8	12
3333	Primary zinc	44	-	-	1	2	2	1	1	9
3334	Primary aluminum	335	3	1	2	2	1	6	6	13
335	Nonferrous rolling and drawing	138	6	4	4	14	6	33	33	110
3351	Copper rolling and drawing	53	2	1	-	3	1	6	6	39
3352	Aluminum rolling and drawing	51	2	-	1	3	3	13	13	19
3356	Rolling and drawing, n.e.c	12	-	2	-	5	1	6	6	8
3357	Nonferrous wire drawing, etc	22	2	1	3	3	1	8	8	44
336	Nonferrous foundries	16	2	1	1	6	3	6	6	27
3361	Aluminum castings	6	2	1	1	3	1	6	6	15
339	Primary metal industries, n.e.c	32	2	2	3	7	4	8	8	46
3391	Iron and steel forgings	12	2	1	1	4	1	3	3	26

See footnotes at end of table.

TABLE 7. Water Treated Prior to Recirculation or Reuse and Type of Treatment by Number of Establishments: 1964—Continued

A. INDUSTRY GROUPS AND INDUSTRIES—Continued

Code	Industry groups and industries	Gross water used, including recirculation or reuse (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
34	Fabricated metal products	105	15	4	17	32	12	54	54	380
3411	Metal cans	2	-	-	-	-	-	3	3	22
342	Cutlery, hand tools, hardware	24	5	1	7	8	4	13	13	41
3421	Cutlery	2	-	-	2	-	1	1	1	2
3423	Hand and edge tools	2	3	-	1	2	-	5	5	5
3429	Hardware, n.e.c	20	2	1	4	6	3	7	7	31
343	Plumbing and heating, except electric	6	2	-	1	4	2	6	6	27
3431	Metal plumbing fixtures	4	2	-	1	3	-	4	4	7
3432	Plumbing fittings, brass goods	1	-	-	-	1	2	1	1	9
344	Structural metal products	32	2	1	1	2	-	3	3	64
345	Screw machine products, bolts, etc	5	-	-	1	2	-	5	5	32
3452	Bolts, nuts, rivets, and washers	5	-	-	1	1	-	4	4	32
3461	Metal stampings	25	3	-	5	4	1	7	7	48
347	Metal services, n.e.c	3	-	-	-	3	2	2	2	74
3471	Plating and polishing	2	-	-	-	3	2	2	2	69
349	Fabricated metal products, n.e.c	6	3	2	2	8	3	15	15	52
3491	Metal barrels, drums, and pails	1	1	1	-	2	1	2	2	5
3494	Valves and pipe fittings	3	1	1	-	3	1	6	6	28
35	Machinery, except electrical	256	18	7	14	44	10	80	80	280
351	Engines and turbines	58	-	-	1	3	3	10	10	22
3522	Farm machinery and equipment	43	2	1	3	4	1	6	6	29
353	Construction and like equipment	60	5	4	5	14	2	15	15	35
3531	Construction machinery	31	3	3	5	8	1	9	9	17
3533	Oil field machinery	25	-	-	-	3	1	2	2	6
354	Metalworking machinery	6	1	1	-	4	-	7	7	41
3541	Metal-cutting machine tools	2	1	1	-	2	-	2	2	13
3548	Metalworking machinery, n.e.c	2	-	-	-	2	-	2	2	8
355	Special industry machinery	7	-	-	-	3	-	2	2	32
3552	Textile machinery	1	-	-	-	2	-	2	2	9
356	General industrial machinery	29	4	1	3	8	1	18	18	64
3561	Pumps and compressors	4	-	-	-	-	1	4	4	19
3562	Ball and roller bearings	20	2	-	3	4	-	7	7	19
3566	Power transmission equipment	3	1	-	-	1	-	2	2	16
3569	General industry machines, n.e.c	2	1	1	-	1	-	2	2	6
357	Office machines, n.e.c	37	2	-	-	3	2	9	9	17
358	Service industry machines	13	1	-	2	2	-	10	10	30
3585	Refrigeration machinery	12	1	-	2	1	-	8	8	20
3599	Miscellaneous machinery	3	3	-	-	3	1	3	3	10
36	Electrical machinery	246	20	9	20	59	25	117	116	284
361	Electric distribution products	21	-	-	3	3	1	14	14	23
3613	Switchgear and switchboards	8	-	-	1	2	-	4	4	11
362	Electric industrial apparatus	27	1	-	2	8	2	20	20	32
3621	Motors and generators	22	1	-	2	5	2	15	15	15
3624	Carbon and graphite products	3	-	-	-	1	-	2	2	8
363	Household appliances	25	6	3	6	5	2	12	12	41
3632	Household refrigerators	15	1	-	1	2	1	3	3	9
3633	Household laundry equipment	4	2	2	4	2	-	3	3	6
3634	Electric housewares and fans	2	1	1	-	-	-	2	2	14
3639	Household appliances, n.e.c	1	1	-	1	1	-	2	2	3
364	Lighting and wiring devices	7	1	-	-	1	-	5	5	47
3642	Lighting fixtures	3	-	-	-	1	-	3	3	8
3644	Noncurrent carrying devices	1	1	-	-	-	-	-	-	14

See footnotes at end of table.

TABLE 7. Water Treated Prior to Recirculation or Reuse and Type of Treatment by Number of Establishments: 1964—Continued

A. INDUSTRY GROUPS AND INDUSTRIES—Continued

Code	Industry groups and industries	Gross water used, including recirculation or reuse (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
36	Electrical machinery--Continued									
365	Radio and TV receiving equipment	6	1	-	-	5	3	5	5	10
366	Communication equipment	81	1	2	1	14	4	28	27	36
367	Electronic components	59	8	2	7	14	9	23	23	65
3673	Electron tubes, transmitting	6	1	-	2	2	1	3	3	7
3674	Semiconductors	37	3	1	3	6	4	9	9	12
3679	Electronic components, n.e.c.	8	3	1	1	3	3	7	7	37
369	Electrical products, n.e.c.	20	2	2	1	8	4	9	9	30
3691	Storage batteries	4	-	1	-	5	1	2	2	13
3694	Engine electrical equipment	9	2	-	-	2	2	5	5	8
37	Transportation equipment	631	36	14	41	68	29	140	140	229
371	Motor vehicles and equipment	401	23	11	31	38	14	88	88	124
3717	Motor vehicles and parts	375	23	11	30	37	14	87	87	120
372	Aircraft and parts	201	9	2	10	22	14	41	41	57
3721	Aircraft	68	4	1	2	7	6	13	14	12
3722	Aircraft engines and parts	107	5	-	3	9	4	11	11	22
3729	Aircraft equipment, n.e.c.	26	-	1	5	6	4	17	16	21
3731	Ship building and repairing	14	1	-	-	3	1	3	3	28
374	Railroad equipment	13	2	-	-	3	-	6	6	15
3751	Motorcycles, bicycles, and parts	1	1	1	-	2	-	2	2	5
38	Instruments and related products	71	8	3	7	14	4	25	26	54
3811	Scientific instruments	1	-	-	-	1	-	3	4	7
382	Mechanical measuring devices	4	1	-	1	6	2	7	7	18
3821	Mechanical measuring devices	2	1	-	1	1	-	4	4	11
3822	Automatic temperature controls	2	-	-	-	5	2	3	3	7
384	Medical instruments and supplies	2	2	-	1	3	1	3	3	8
3861	Photographic equipment	52	1	3	2	4	2	7	7	11
3871	Watches and clocks	2	2	-	1	-	-	3	3	6
39	Miscellaneous manufacturing	18	4	-	3	2	2	11	11	58
391	Jewelry and silverware	5	1	-	-	-	-	4	4	9
394	Toys and sporting goods	3	2	-	2	1	2	4	4	15
3949	Sporting and atheletic goods	2	1	-	2	-	1	2	2	7
398) 399)	Miscellaneous manufactures	8	-	-	1	1	-	1	1	16

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries whether or not separate figures are shown for the individual industries.

- Represents zero. (Z) Less than 500 million gallons.

[1]Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 23 and 27. In 1959, such establishments had total water intake of 23 billion gallons, gross water use of 58 billion gallons, discharge of 22 billion gallons of water, and 152 thousand employees. Data for Major Group 19 is included in all total figures but was considered too insignificant to publish.

TABLE 7. Water Treated Prior to Recirculation or Reuse and Type of Treatment by Number of Establishments: 1964

B. WATER USE REGIONS AND MAJOR INDUSTRY GROUPS

Code	Water use region and major industry groups	Gross water used, including recirculation or reuse (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
	United States, total[1]	28,811	355	256	494	819	255	1,700	1,701	6,071
	New England	844	29	9	38	43	14	105	105	524
20	Food and kindred products	19	2	-	1	3	-	9	9	47
22	Textile mill products	13	3	2	2	7	-	11	11	84
26	Paper and allied products	517	3	2	18	10	1	14	14	76
28	Chemicals and allied products	71	1	1	1	4	2	12	12	29
30	Rubber and plastics products, n.e.c.	43	3	-	3	1	1	9	9	38
32	Stone, clay, and glass products	3	-	-	-	1	2	2	2	18
33	Primary metal industries	48	1	-	2	3	1	10	10	52
34	Fabricated metal products	5	3	1	3	2	2	8	8	35
35	Machinery, except electrical	36	1	1	-	-	-	3	3	38
36	Electrical machinery	9	3	1	3	5	2	6	6	40
37	Transportation equipment	56	2	-	-	3	1	4	4	11
38	Instruments and related products	8	2	-	2	2	1	5	5	10
39	Miscellaneous manufacturing	7	3	-	2	1	1	8	8	17
	Delaware and Hudson	2,125	25	31	52	88	27	179	179	671
20	Food and kindred products	74	1	1	5	12	1	23	23	141
22	Textile mill products	56	1	-	3	2	-	3	3	64
26	Paper and allied products	296	4	11	11	11	5	10	10	43
28	Chemicals and allied products	393	10	7	8	15	4	48	48	108
29	Petroleum and coal products	715	2	3	5	6	5	12	12	9
30	Rubber and plastics products, n.e.c.	16	1	1	5	3	-	4	4	36
31	Leather and leather products	2	-	-	-	1	-	2	2	14
32	Stone, clay, and glass products	26	-	-	1	5	1	10	10	45
33	Primary metal industries	381	2	3	9	12	4	19	19	66
34	Fabricated metal products	49	-	1	-	3	-	7	7	35
35	Machinery, except electrical	41	3	1	2	6	2	12	12	19
36	Electrical machinery	29	-	1	1	7	2	14	14	46
37	Transportation equipment	42	-	2	1	4	2	10	10	18
38	Instruments and related products	3	-	-	-	1	-	4	4	13
39	Miscellaneous manufacturing	2	1	-	1	1	-	1	1	10
	Chesapeake Bay	1,443	12	10	28	45	15	78	78	290
20	Food and kindred products	41	-	1	4	11	3	16	16	109
22	Textile mill products	2	-	-	1	-	-	3	3	12
26	Paper and allied products	717	1	4	10	1	1	3	3	13
28	Chemicals and allied products	143	2	1	2	3	-	12	12	36
30	Rubber and plastics products, n.e.c.	11	-	1	1	2	-	3	3	10
31	Leather and leather products	1	1	1	3	2	-	-	-	6
32	Stone, clay, and glass products	9	-	1	1	7	4	6	6	22
33	Primary metal industries	434	2	1	2	2	2	5	5	18
34	Fabricated metal products	4	2	-	1	4	-	3	3	15
35	Machinery, except electrical	11	-	-	1	2	-	2	2	10
36	Electrical machinery	7	2	-	1	3	-	9	8	12
37	Transportation equipment	20	2	-	1	4	4	6	6	10
38	Instruments and related products	5	-	-	-	2	-	2	3	2
	Eastern Great Lakes-St. Lawrence	2,077	30	27	39	69	22	153	153	569
20	Food and kindred products	56	2	3	4	7	2	17	17	135
26	Paper and allied products	172	2	4	5	3	-	4	4	28
28	Chemicals and allied products	283	4	3	3	8	3	27	27	60
29	Petroleum and coal products	224	-	5	3	6	5	3	3	8
30	Rubber and plastics products, n.e.c.	74	1	-	2	3	1	4	4	32
32	Stone, clay, and glass products	42	1	1	1	3	1	5	5	36
33	Primary metal industries	965	1	1	4	4	1	14	14	77
34	Fabricated metal products	10	4	1	2	7	2	7	7	42
35	Machinery, except electrical	15	1	-	-	1	-	6	6	42
36	Electrical machinery	20	4	2	2	9	2	21	21	27
37	Transportation equipment	164	9	6	12	16	4	34	34	56
38	Instruments and related products	45	1	1	1	1	1	7	7	9
	Ohio River	3,769	48	30	63	142	44	228	228	680
20	Food and kindred products	57	5	1	6	30	3	31	31	138
21	Tobacco manufactures	3	-	-	1	2	-	1	1	1
26	Paper and allied products	187	3	7	9	8	3	7	7	27
28	Chemicals and allied products	1,151	6	3	10	10	5	41	41	75
29	Petroleum and coal products	227	1	3	2	3	2	12	12	14
30	Rubber and plastics products, n.e.c.	15	1	2	2	5	4	7	7	36
32	Stone, clay, and glass products	45	6	1	5	10	1	20	20	56
33	Primary metal industries	1,945	12	11	8	25	11	39	39	120
34	Fabricated metal products	7	2	-	4	11	2	11	11	61

See footnotes at end of table.

TABLE 7. Water Treated Prior to Recirculation or Reuse and Type of Treatment by Number of Establishments: 1964—Continued

B. WATER USE REGIONS AND MAJOR INDUSTRY GROUPS—Continued

Code	Water use region and major industry groups	Gross water used, including recirculation or reuse (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
	Ohio River--Continued									
35	Machinery, except electrical	24	3	-	3	9	2	16	16	40
36	Electrical machinery	58	3	1	8	10	6	20	20	48
37	Transportation equipment	44	4	-	4	10	3	19	19	33
38	Instruments and related products	1	1	1	1	4	2	3	3	2
	Tennessee	698	12	5	9	17	3	29	29	121
20	Food and kindred products	9	-	-	-	2	-	1	1	21
22	Textile mill products	16	2	1	4	7	-	6	6	20
26	Paper and allied products	160	-	-	2	-	-	2	2	7
28	Chemicals and allied products	376	4	2	2	3	2	7	7	25
33	Primary metal industries	86	1	1	-	1	-	5	5	10
36	Electrical machinery	4	2	-	-	2	1	5	5	6
	Southeast	2,606	37	17	32	45	12	163	163	648
20	Food and kindred products	51	3	1	5	15	1	23	23	165
21	Tobacco manufactures	10	-	-	-	1	-	4	4	2
22	Textile mill products	152	14	5	5	17	2	67	67	248
24	Lumber and wood products	14	-	-	-	1	-	3	3	13
26	Paper and allied products	1,459	1	6	14	-	1	8	8	33
28	Chemicals and allied products	445	5	-	3	2	2	23	23	63
29	Petroleum and coal products	63	1	-	1	-	-	3	3	3
30	Rubber and plastics products, n.e.c	42	1	-	-	-	-	3	3	4
32	Stone, clay, and glass products	48	2	2	1	2	1	6	6	33
33	Primary metal industries	239	2	1	-	1	-	2	2	25
34	Fabricated metal products	4	2	-	1	-	1	1	1	23
35	Machinery, except electrical	11	-	-	-	1	-	3	3	5
36	Electrical machinery	34	1	2	1	1	1	7	7	16
37	Transportation equipment	30	1	-	1	1	1	5	5	5
	Western Great Lakes	2,506	38	39	73	101	31	149	149	684
20	Food and kindred products	88	3	7	10	15	4	21	21	166
26	Paper and allied products	451	5	9	23	10	3	10	10	49
28	Chemicals and allied products	257	2	2	11	9	1	28	28	48
29	Petroleum and coal products	321	3	4	3	3	1	6	6	14
30	Rubber and plastics products, n.e.c	8	1	1	2	2	2	3	3	21
31	Leather and leather products	3	-	-	-	1	1	1	1	16
32	Stone, clay, and glass products	21	2	1	-	6	-	1	1	27
33	Primary metal industries	1,186	6	9	6	15	5	14	14	84
34	Fabricated metal products	14	2	1	3	2	2	10	10	82
35	Machinery, except electrical	27	5	3	4	14	1	20	20	52
36	Electrical machinery	36	1	-	2	9	4	14	14	37
37	Transportation equipment	86	5	2	7	10	5	19	19	47
38	Instruments and related products	2	1	-	2	3	1	1	1	11
	Upper Mississippi	1,150	20	27	38	70	20	115	115	467
20	Food and kindred products	189	5	9	10	32	7	48	48	220
26	Paper and allied products	254	1	10	13	2	-	3	3	17
28	Chemicals and allied products	147	2	1	2	5	3	18	18	28
29	Petroleum and coal products	228	3	2	3	2	1	7	7	3
30	Rubber and plastics products, n.e.c	8	-	-	-	1	2	3	3	11
32	Stone, clay, and glass products	28	-	1	-	7	-	4	4	26
33	Primary metal industries	200	1	-	1	5	2	4	4	29
34	Fabricated metal products	9	-	-	2	1	-	4	4	34
35	Machinery, except electrical	53	3	2	2	6	2	9	9	49
36	Electrical machinery	9	1	1	1	4	1	5	6	23
37	Transportation equipment	20	2	1	4	3	2	7	7	7
38	Instruments and related products	1	1	-	-	1	-	-	-	5
	Lower Mississippi	1,091	12	7	8	21	5	35	35	154
20	Food and kindred products	43	5	2	1	8	2	8	8	79
26	Paper and allied products	87	-	-	-	-	-	-	-	7
28	Chemicals and allied products	449	3	4	4	6	1	18	18	17
29	Petroleum and coal products	310	-	1	-	1	1	2	2	4
30	Rubber and plastics products, n.e.c	6	-	-	-	3	-	3	3	2
	Missouri	425	12	7	11	29	7	54	54	202
20	Food and kindred products	105	4	1	5	13	2	21	21	136
26	Paper and allied products	5	-	1	1	1	-	2	2	1
28	Chemicals and allied products	68	6	2	1	3	1	9	9	12
29	Petroleum and coal products	171	2	2	1	2	1	11	11	9

See footnotes at end of table.

TABLE 7. Water Treated Prior to Recirculation or Reuse and Type of Treatment by Number of Establishments: 1964—Continued

B. WATER USE REGIONS AND MAJOR INDUSTRY GROUPS—Continued

Code	Water use region and major industry groups	Gross water used, including recirculation or reuse (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
	Missouri--Continued									
32	Stone, clay, and glass products	5	-	-	-	3	1	1	1	11
37	Transportation equipment	14	-	1	3	1	-	4	4	4
	Arkansas White and Red	1,822	13	7	21	19	5	71	71	188
20	Food and kindred products	12	2	-	4	5	-	15	15	77
24	Lumber and wood products	2	2	-	2	-	-	2	2	11
26	Paper and allied products	426	1	1	3	2	-	3	3	14
28	Chemicals and allied products	724	1	3	1	2	2	9	9	26
29	Petroleum and coal products	549	4	2	8	4	1	24	24	12
32	Stone, clay, and glass products	8	2	-	-	2	-	3	3	16
33	Primary metal industries	84	-	1	1	1	1	5	5	5
37	Transportation equipment	6	1	-	1	1	1	3	3	5
	Western Gulf	5,022	25	9	21	34	11	116	116	179
20	Food and kindred products	33	2	2	2	12	1	14	14	68
24	Lumber and wood products	19	2	1	3	2	-	2	2	3
28	Chemicals and allied products	1,983	13	3	7	8	4	43	43	36
29	Petroleum and coal products	2,491	2	-	5	3	2	32	32	10
32	Stone, clay, and glass products	11	1	1	1	-	-	2	2	24
33	Primary metal industries	338	1	-	2	2	1	6	6	9
35	Machinery, except electrical	27	-	-	-	2	1	3	3	7
36	Electrical machinery	14	2	-	-	1	2	3	3	-
37	Transportation equipment	57	2	1	1	3	-	6	6	9
	Colorado Basin	144	1	1	1	8	3	17	17	22
20	Food and kindred products	4	1	-	-	2	1	2	2	4
33	Primary metal industries	104	-	1	-	3	-	6	6	4
	Great Basin	180	2	-	3	8	3	13	13	27
20	Food and kindred products	5	-	-	1	1	-	3	3	16
29	Petroleum and coal products	19	-	-	1	-	-	3	3	-
33	Primary metal industries	147	-	-	-	3	2	1	1	3
37	Transportation equipment	1	2	-	1	2	1	3	3	-
	California	1,231	32	19	35	61	26	131	131	342
20	Food and kindred products	92	11	5	11	15	5	37	37	164
24	Lumber and wood products	34	1	2	2	2	-	8	8	22
26	Paper and allied products	125	2	4	5	4	1	5	5	14
28	Chemicals and allied products	119	2	1	-	7	1	21	21	31
29	Petroleum and coal products	569	2	2	2	2	-	10	10	6
30	Rubber and plastics products, n.e.c.	12	-	-	-	-	-	2	2	5
32	Stone, clay, and glass products	19	-	1	4	2	2	8	8	35
33	Primary metal industries	155	1	2	1	6	2	7	7	7
34	Fabricated metal products	1	-	-	-	1	3	1	1	16
36	Electrical machinery	11	1	1	1	6	3	10	9	14
37	Transportation equipment	71	6	1	5	9	5	15	15	10
38	Instruments and related products	1	1	-	-	3	-	1	2	-
	Pacific Northwest	1,317	4	6	18	11	2	49	50	255
20	Food and kindred products	32	2	-	5	3	-	11	11	108
24	Lumber and wood products	92	-	2	2	4	-	16	16	64
26	Paper and allied products	974	1	3	11	2	1	5	6	23
28	Chemicals and allied products	99	-	-	-	2	1	7	7	14
29	Petroleum and coal products	54	-	-	-	-	-	4	4	1
33	Primary metal industries	46	1	-	-	-	-	3	3	16
37	Transportation equipment	17	-	-	-	-	-	3	3	5
	Cumberland	41	1	4	4	6	5	9	9	20
28	Chemicals and allied products	21	-	4	4	4	4	4	4	3
32	Stone, clay, and glass products	12	1	-	-	1	-	3	3	1
	Alaska and Hawaii	319	2	1	-	2	-	6	6	26
20	Food and kindred products	211	1	1	-	2	-	4	4	22

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries whether or not separate figures are shown for the individual industries.

- Represents zero.
(Z) Less than 500 million gallons. n.e.c. Not elsewhere classified.
[1]Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 23 and 27. In 1959, such establishments had total water intake of 23 billion gallons, gross water use of 58 billion gallons, discharge of 22 billion gallons of water, and 152 thousand employees. Data for Major Group 19 is included in all total figures but was considered too insignificant to publish.

TABLE 7. Water Treated Prior to Recirculation or Reuse and Type of Treatment by Number of Establishments: 1964

C. STATES AND SELECTED INDUSTRY GROUPS

Code	States and selected industry groups	Gross water used, including recirculation or reuse (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
	United States, total[1]	28,811	355	256	494	819	255	1,700	1,701	6,071
	New England division	844	29	9	39	43	15	106	106	535
	Maine	388	1	1	6	1	-	9	9	48
22	Textile mill products	1	-	1	-	1	-	3	3	9
26	Paper and allied products	369	-	-	6	-	-	3	3	13
	New Hampshire	76	3	-	1	2	1	8	8	28
	Vermont	7	-	-	3	1	1	3	3	23
20	Food and kindred products	1	-	-	1	1	-	3	3	5
	Massachusetts	170	16	5	20	23	3	41	41	227
20	Food and kindred products	13	1	-	-	2	-	6	6	20
22	Textile mill products	6	1	1	1	3	-	3	3	38
26	Paper and allied products	58	2	1	8	7	1	6	6	39
28	Chemicals and allied products	20	-	-	1	2	-	8	8	17
30	Rubber and plastics products, n.e.c.	14	3	-	2	1	-	5	5	16
34	Fabricated metal products	2	1	1	-	-	-	1	1	12
36	Electrical machinery	7	2	1	3	4	2	2	4	20
37	Transportation equipment	2	2	-	-	1	-	1	1	3
38	Instruments and related products	7	1	-	2	1	-	2	2	6
	Rhode Island	11	2	-	3	6	3	9	9	54
22	Textile mill products	1	1	-	1	2	-	3	3	17
	Connecticut	192	7	3	6	10	7	36	36	155
26	Paper and allied products	16	1	1	3	2	-	4	4	8
33	Primary metal industries	39	1	-	1	1	1	4	4	26
34	Fabricated metal products	3	2	-	2	2	2	7	7	21
35	Machinery, except electrical	3	1	1	-	-	-	3	3	12
39	Miscellaneous manufacturing	5	-	-	-	-	-	5	5	6
	Middle Atlantic division	4,340	53	45	81	142	43	296	296	1,141
	New York	937	13	14	14	47	12	94	94	401
26	Paper and allied products	202	3	5	5	6	-	8	8	40
28	Chemicals and allied products	117	2	2	2	5	3	14	14	37
33	Primary metal industries	335	-	1	1	4	2	8	8	42
34	Fabricated metal products	2	1	-	1	3	-	2	2	7
35	Machinery, except electrical	26	2	1	-	2	1	7	7	18
36	Electrical machinery	13	2	2	-	6	-	9	8	27
37	Transportation equipment	34	-	-	-	5	3	9	9	13
38	Instruments and related products	50	1	1	1	2	1	8	9	13
	New Jersey	692	14	9	24	33	13	88	88	280
20	Food and kindred products	20	-	-	2	3	-	5	5	48
22	Textile mill products	3	1	-	3	2	-	3	3	22
26	Paper and allied products	155	2	2	6	4	4	3	3	9
28	Chemicals and allied products	225	7	4	4	7	1	34	34	64
29	Petroleum and coal products	196	1	1	1	2	2	5	5	5
30	Rubber and plastics products, n.e.c.	7	1	-	2	1	-	2	2	23
32	Stone, clay, and glass products	8	-	-	1	3	1	7	7	16
33	Primary metal industries	47	1	-	3	2	2	8	8	33
34	Fabricated metal products	2	-	1	-	3	-	5	5	12
36	Electrical machinery	18	-	1	-	4	2	7	7	21
37	Transportation equipment	5	-	-	1	2	1	2	2	8
38	Instruments and related products	2	-	-	-	-	-	1	1	4
39	Miscellaneous manufacturing	(Z)	1	-	1	-	-	-	-	2
	Pennsylvania	2,711	26	22	43	62	18	114	114	460
20	Food and kindred products	45	1	-	3	6	-	15	15	73
22	Textile mill products	2	-	-	-	-	-	1	1	30
26	Paper and allied products	626	2	8	8	4	2	3	3	20
28	Chemicals and allied products	167	2	2	5	7	2	19	19	38
29	Petroleum and coal products	344	1	2	4	4	3	10	10	10
30	Rubber and plastics products, n.e.c.	11	1	2	4	4	1	2	2	21
31	Leather and leather products	1	1	1	2	3	-	-	-	4
32	Stone, clay, and glass products	30	3	-	-	5	2	9	9	44
33	Primary metal industries	1,355	6	6	10	12	5	18	18	87
35	Machinery, except electrical	28	2	-	3	5	1	6	6	22
36	Electrical machinery	27	2	-	3	3	-	11	11	34
37	Transportation equipment	16	3	1	-	4	1	7	7	12
38	Instruments and related products	1	1	-	-	2	1	4	4	5

See footnotes at end of table.

TABLE 7. Water Treated Prior to Recirculation or Reuse and Type of Treatment by Number of Establishments: 1964—Continued

C. STATES AND SELECTED INDUSTRY GROUPS—Continued

Code	States and selected industry groups	Gross water used, including recirculation or reuse (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
	East North Central division	6,047	93	92	163	273	89	438	438	1,638
	Ohio	1,790	27	21	44	85	29	139	139	444
20	Food and kindred products	19	2	-	4	13	1	15	15	92
26	Paper and allied products	162	1	5	7	6	1	4	4	21
28	Chemical and allied products	264	4	2	4	7	4	24	24	54
29	Petroleum and coal products	221	-	6	5	6	5	5	5	8
30	Rubber and plastics products, n.e.c.	75	1	1	3	5	4	8	8	40
32	Stone, clay, and glass products	45	1	-	2	5	2	7	7	31
33	Primary metal industries	921	5	2	5	11	3	27	27	65
34	Fabricated metal products	9	3	1	3	7	3	7	7	42
35	Machinery, except electrical	11	-	-	1	4	-	6	6	29
36	Electrical machinery	18	4	1	2	6	2	13	13	19
37	Transportation equipment	43	6	3	8	14	3	18	18	27
	Indiana	1,265	18	13	21	46	19	70	70	213
20	Food and kindred products	36	2	4	3	5	1	7	7	42
26	Paper and allied products	14	-	2	2	2	2	2	2	7
28	Chemicals and allied products	122	3	1	4	1	1	12	12	12
30	Rubber and plastics products, n.e.c.	7	1	-	-	1	1	3	3	10
32	Stone, clay, and glass products	5	2	-	1	5	-	3	3	12
33	Primary metal industries	805	2	2	1	5	3	5	5	32
34	Fabricated metal products	2	-	-	1	5	1	3	3	21
35	Machinery, except electrical	7	3	1	1	6	3	6	6	20
36	Electrical machinery	26	1	-	2	7	4	13	13	16
37	Transportation equipment	24	2	-	3	4	2	11	11	24
	Illinois	1,405	25	25	44	79	22	112	112	377
20	Food and kindred products	96	2	7	11	21	4	26	26	95
26	Paper and allied products	83	2	2	5	5	-	5	5	14
28	Chemicals and allied products	264	3	2	7	8	2	26	26	31
29	Petroleum and coal products	335	2	5	3	3	-	6	6	10
30	Rubber and plastics products, n.e.c.	5	-	1	2	1	1	3	3	10
32	Stone, clay, and glass products	21	1	-	-	7	-	2	2	18
33	Primary metal industries	505	3	5	3	7	5	6	6	35
34	Fabricated metal products	11	2	1	3	2	1	5	5	49
35	Machinery, except electrical	36	3	2	4	9	1	13	13	40
36	Electrical machinery	32	2	-	2	7	4	10	10	34
37	Transportation equipment	12	3	-	3	4	2	6	6	12
38	Instruments and related products	2	-	-	1	3	1	1	1	10
	Michigan	1,119	6	16	27	33	12	67	67	337
20	Food and kindred products	22	-	2	4	5	1	8	8	59
26	Paper and allied products	228	-	6	9	1	1	2	2	27
28	Chemicals and allied products	176	-	-	1	3	-	10	10	31
29	Petroleum and coal products	77	-	1	-	1	1	3	3	5
32	Stone, clay, and glass products	22	-	2	-	1	-	-	-	14
33	Primary metal industries	381	-	1	1	5	1	-	-	51
34	Fabricated metal products	8	-	-	1	2	1	4	4	38
35	Machinery, except electrical	12	-	-	-	3	-	5	5	26
36	Electrical machinery	3	-	-	-	3	1	4	4	7
37	Transportation equipment	181	6	4	11	9	6	30	30	54
	Wisconsin	468	17	17	27	30	7	50	50	267
20	Food and kindred products	42	2	2	3	5	1	14	14	118
26	Paper and allied products	348	4	9	18	6	2	5	5	21
33	Primary metal industries	16	4	3	3	7	1	8	8	23
34	Fabricated metal products	4	-	-	-	-	-	3	3	22
35	Machinery, except electrical	20	3	2	1	5	-	11	11	22
36	Electrical machinery	6	-	-	-	1	1	6	6	12
	West North Central division	833	19	22	25	69	19	117	117	453
	Minnesota	200	1	4	8	13	5	20	20	116
20	Food and kindred products	44	-	-	1	8	2	10	10	75
26	Paper and allied products	69	-	4	5	1	-	1	1	4
28	Chemicals and allied products	12	-	-	-	1	1	2	2	4
32	Stone, clay, and glass products	2	-	-	-	1	-	2	2	6
35	Machinery, except electrical	(Z)	-	-	-	-	1	-	-	6
	Iowa	141	4	3	4	14	5	15	15	102
20	Food and kindred products	61	4	2	2	10	4	12	12	59
	Missouri	203	5	6	7	21	5	46	46	119
20	Food and kindred products	33	-	2	3	3	1	17	17	55
26	Paper and allied products	2	-	-	-	1	-	2	2	1
28	Chemicals and allied products	66	-	1	1	3	1	9	9	14
32	Stone, clay, and glass products	6	1	1	-	3	-	1	1	7

See footnotes at end of table.

TABLE 7. Water Treated Prior to Recirculation or Reuse and Type of Treatment by Number of Establishments: 1964—Continued

C. STATES AND SELECTED INDUSTRY GROUPS—Continued

Code	States and selected industry groups	Gross water used, including recirculation or reuse (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
	West North Central division--Continued									
	Missouri--Continued									
35	Machinery, except electrical	2	1	-	-	2	-	2	2	6
36	Electrical machinery	2	-	-	-	3	1	2	2	5
37	Transportation equipment	15	2	1	2	1	-	6	6	4
	South Dakota	15	1	1	-	-	-	3	3	13
20	Food and kindred products	5	1	1	-	-	-	3	3	12
	Nebraska	43	3	2	-	9	-	9	9	47
20	Food and kindred products	20	1	1	-	9	-	5	5	33
	Kansas	208	5	6	6	11	4	24	24	49
28	Chemicals and allied products	61	4	2	1	3	1	6	6	7
29	Petroleum and coal products	96	-	2	1	2	-	8	8	3
	South Atlantic division	3,950	41	24	51	83	22	223	223	783
	Delaware	285	1	3	2	5	-	9	9	33
28	Chemicals and allied products	61	-	1	1	1	-	3	3	6
	Maryland	486	4	2	8	22	6	25	25	96
20	Food and kindred products	15	-	-	1	8	3	5	5	49
28	Chemicals and allied products	26	2	-	1	2	-	2	2	16
32	Stone, clay, and glass products	5	-	-	1	3	1	3	3	6
37	Transportation equipment	6	-	-	1	1	1	3	3	6
	Virginia	391	4	3	7	7	5	26	26	98
20	Food and kindred products	5	-	-	1	1	-	3	3	25
21	Tobacco manufactures	6	-	-	-	-	-	2	2	2
22	Textile mill products	9	-	-	2	1	1	4	4	16
26	Paper and allied products	166	1	2	2	-	-	2	2	6
28	Chemicals and allied products	142	-	1	1	-	-	6	6	20
33	Primary metal industries	3	1	-	-	-	-	1	1	3
	West Virginia	807	5	3	8	7	2	23	23	53
32	Stone, clay, and glass products	10	1	1	2	1	-	3	3	7
	North Carolina	335	5	8	8	9	2	48	48	164
20	Food and kindred products	3	-	-	1	3	-	2	2	30
21	Tobacco manufactures	10	-	-	-	1	-	4	4	2
22	Textile mill products	38	3	4	4	4	-	26	26	100
26	Paper and allied products	169	-	1	2	-	1	2	2	4
28	Chemicals and allied products	54	-	-	-	-	-	6	6	8
32	Stone, clay, and glass products	7	1	1	-	-	-	1	1	2
36	Electrical machinery	3	-	1	-	-	-	3	3	6
	South Carolina	321	11	2	4	9	3	44	44	101
20	Food and kindred products	1	1	-	-	1	-	1	1	10
22	Textile mill products	74	6	1	1	7	1	27	27	64
	Georgia	647	8	2	8	12	-	27	27	157
20	Food and kindred products	12	1	1	1	2	-	6	6	47
22	Textile mill products	27	5	1	2	8	-	7	7	57
26	Paper and allied products	525	-	-	3	-	-	3	3	13
28	Chemicals and allied products	54	1	-	1	-	-	5	5	12
32	Stone, clay, and glass products	10	-	-	-	1	-	1	1	9
	Florida	678	3	1	6	12	4	21	21	76
20	Food and kindred products	29	1	-	3	8	1	12	12	41
28	Chemicals and allied products	204	2	-	-	1	1	5	5	16
	East South Central division	1,778	33	16	30	57	13	98	98	379
	Kentucky	399	11	4	13	25	5	38	38	75
20	Food and kindred products	18	1	-	1	10	2	7	7	34
21	Tobacco manufactures	3	-	-	1	2	-	1	1	-
28	Chemicals and allied products	231	5	1	2	2	1	6	6	12
33	Primary metal industries	77	1	3	2	4	2	5	5	4
	Tennessee	602	10	5	8	22	6	29	29	138
22	Textile mill products	14	2	-	1	4	-	5	5	18
26	Paper and allied products	134	-	-	2	-	-	1	1	6
28	Chemicals and allied products	329	2	5	4	5	4	8	8	23
32	Stone, clay, and glass products	14	1	-	-	2	-	2	2	13

See footnotes at end of table.

TABLE 7. Water Treated Prior to Recirculation or Reuse and Type of Treatment by Number of Establishments: 1964—Continued

C. STATES AND SELECTED INDUSTRY GROUPS—Continued

Code	States and selected industry groups	Gross water used, including recirculation or reuse (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
	East South Central division--Continued									
	Alabama	552	9	7	4	7	2	20	20	112
22	Textile mill products	9	-	-	-	-	-	6	6	22
26	Paper and allied products	194	-	5	4	-	-	2	2	4
28	Chemicals and allied products	52	1	-	-	3	1	1	1	17
33	Primary metal industries	249	2	2	-	1	-	3	3	17
	Mississippi	225	3	-	5	3	-	11	11	54
28	Chemicals and allied products	45	1	-	1	1	-	4	4	6
	West South Central division	7,605	43	21	46	55	20	189	189	391
	Arkansas	448	5	2	10	3	2	11	11	66
20	Food and kindred products	4	1	-	3	-	-	2	2	36
	Louisiana	2,113	12	12	9	17	7	44	44	108
20	Food and kindred products	32	4	2	1	6	2	6	6	48
24	Lumber and wood products	2	1	1	1	1	-	2	2	7
26	Paper and allied products	144	1	1	1	-	-	-	-	10
28	Chemicals and allied products	1,176	4	7	4	6	2	25	25	14
29	Petroleum and coal products	579	1	1	2	3	2	8	8	7
	Oklahoma	289	2	-	5	8	1	22	22	28
20	Food and kindred products	1	1	-	1	3	-	5	5	9
29	Petroleum and coal products	247	-	-	3	2	-	11	11	2
32	Stone, clay, and glass products	1	1	-	-	2	-	1	1	3
33	Primary metal industries	4	-	-	-	-	1	2	2	2
	Texas	4,755	24	7	22	27	10	112	112	189
20	Food and kindred products	33	2	2	2	10	1	16	16	64
28	Chemicals and allied products	1,809	11	2	8	6	4	37	37	40
29	Petroleum and coal products	2,397	4	-	6	1	1	31	31	11
32	Stone, clay, and glass products	12	1	1	1	-	-	2	2	26
35	Machinery, except electrical	27	-	-	-	2	1	3	3	8
37	Transportation equipment	57	2	1	1	3	-	6	6	9
	Mountain division	682	7	1	9	26	7	49	49	173
	Montana	60	1	-	1	2	-	4	4	21
20	Food and kindred products	6	1	-	1	1	-	-	-	5
	Idaho	130	1	-	3	3	1	4	4	39
20	Food and kindred products	12	1	-	2	1	-	2	2	29
	Wyoming	55	1	-	-	1	-	4	4	9
29	Petroleum and coal products	54	1	-	-	1	-	4	4	2
	Colorado	119	1	-	1	3	-	7	7	60
	New Mexico	11	-	-	-	4	-	3	3	2
	Arizona	121	1	1	1	4	2	12	12	14
33	Primary metal industries	101	-	1	-	3	-	5	5	4
	Utah	176	2	-	3	7	3	11	11	23
20	Food and kindred products	5	-	-	1	1	-	3	3	14
37	Transportation equipment	1	2	-	1	2	1	3	3	-
	Nevada	10	-	-	-	2	1	4	4	5
	Pacific division	2,407	35	25	50	69	27	176	178	549
	Washington	946	3	4	8	5	1	28	29	112
20	Food and kindred products	14	1	-	2	2	-	8	8	46
24	Lumber and wood products	28	-	-	-	-	-	5	5	19
26	Paper and allied products	794	1	3	6	2	1	5	6	13
28	Chemicals and allied products	18	-	-	-	1	-	3	3	6
29	Petroleum and coal products	54	-	-	-	-	-	3	3	1
33	Primary metal industries	20	1	-	-	-	-	1	1	9
37	Transportation equipment	17	-	-	-	-	-	3	3	3
	Oregon	234	-	2	7	3	-	17	17	98
24	Lumber and wood products	60	-	2	2	3	-	11	11	41
26	Paper and allied products	132	-	-	4	-	-	-	-	8

See footnotes at end of table.

TABLE 7. Water Treated Prior to Recirculation or Reuse and Type of Treatment by Number of Establishments: 1964—Continued

C. STATES AND SELECTED INDUSTRY GROUPS—Continued

Code	States and selected industry groups	Gross water used, including recirculation or reuse (billion gallons)	Number of establishments treating intake water prior to use by type of treatment							
			Aeration	Coagulation	Filtration	Softening	Ion exchange	Corrosion control	Other	No treatment performed
	Pacific division--Continued									
	California	1,227	32	19	35	61	26	131	132	339
20	Food and kindred products	93	11	5	11	15	5	37	38	164
24	Lumber and wood products	28	1	2	2	2	-	8	8	19
26	Paper and allied products	125	2	4	5	4	1	5	5	14
28	Chemicals and allied products	119	2	1	-	7	1	21	21	30
29	Petroleum and coal products	568	2	2	2	2	-	10	10	6
30	Rubber and plastics products, n.e.c.	12	-	-	-	-	-	2	2	5
32	Stone, clay, and glass products	19	-	1	4	2	2	8	8	36
34	Fabricated metal products	1	-	-	-	1	3	1	1	16
36	Electrical machinery	9	1	1	1	6	3	10	9	14
37	Transportation equipment	71	6	1	5	9	5	15	15	10
38	Instruments and related products	3	1	-	-	3	-	1	2	-
	Alaska and Hawaii	319	2	1	-	2	-	6	6	26

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries.

- Represents zero. (Z) Less than 500 million gallons.

[1]Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 23 and 27. In 1959, such establishments had total water intake of 23 billion gallons, gross water use of 58 billion gallons, discharge of 22 billion gallons of water, and 152 thousand employees. Data for Major Group 19 is included in all total figures but was considered too insignificant to publish.

TABLE 8. Water Treated Prior to Discharge and Type of Treatment by Number of Establishments: 1964

A. INDUSTRY GROUPS AND INDUSTRIES

Code	Industry groups and industries	Water treated prior to discharge (billion gallons)	Number of establishments treating water prior to discharge by type of treatment								
			Coagulation	Settling		Trickling filters	Activated sludge	Digestion	Ponds or lagoons	Other	No treatment method
				Primary	Secondary						
	United States, total[1]	3,826	384	1,375	572	283	272	357	1,019	1,477	5,665
20	Food and kindred products	158	27	206	64	46	31	45	168	348	1,733
201	Meat products	39	4	74	14	8	7	9	26	55	301
2011	Meat slaughtering plants	36	4	65	14	6	6	5	18	39	131
2015	Poultry dressing plants	3	-	6	-	2	-	3	8	16	124
202	Dairies	9	6	20	10	18	10	9	12	48	468
2021	Creamery butter	1	-	4	2	5	-	2	3	5	48
2023	Condensed and evaporated milk	3	1	6	4	9	5	3	3	9	68
2026	Fluid milk	6	4	9	4	3	5	3	5	30	269
203	Canned and frozen foods	31	4	32	13	11	6	10	54	160	241
2032	Canned specialties	1	-	2	1	1	-	1	3	6	29
2033	Canned fruits and vegetables	13	3	11	5	4	1	3	38	98	117
2034	Dehydrated foods products	3	-	6	-	-	-	1	-	7	11
2035	Pickles, sauces, salad dressings	1	1	1	-	-	1	-	2	5	21
2037	Frozen fruits and vegetables	12	-	11	6	5	4	5	11	41	40
204	Grain mills	5	1	7	3	2	3	4	4	7	57
2043	Cereal preparations	1	-	1	-	-	-	-	-	2	8
206	Sugar	55	1	19	6	-	-	2	51	22	48
2063	Beet sugar	34	1	14	5	-	-	-	35	17	6
208	Beverages	7	5	8	3	3	3	5	9	18	289
2082	Malt liquors	5	-	6	2	-	1	1	1	4	108
2083	Malt	1	-	-	-	1	1	1	1	7	16
209	Miscellaneous foods and kindred products	11	4	43	13	2	2	4	12	34	224
2092	Soybean oil mills	2	-	6	2	-	-	-	4	6	34
2094	Animal and marine fats and oils	2	-	16	3	1	2	1	5	8	40
2096	Shortening and cooking oils	5	1	10	3	-	-	1	1	8	27
2099	Food preparations, n.e.c	1	-	7	2	1	-	1	2	7	46
22	Textile mill products	35	21	60	36	25	20	30	56	47	447
2211	Weaving mills, cotton	6	2	19	16	9	8	15	7	12	86
2221	Weaving mills, synthetics	2	2	6	2	1	2	4	5	6	53
2231	Weaving, finishing mills, wool	4	2	3	3	3	-	3	7	5	49
225	Knitting mills	2	3	4	3	-	1	1	7	2	58
2256	Knit fabric mills	1	3	3	1	-	-	-	5	2	20
226	Textile finishing, except wool	13	4	14	7	7	4	2	16	13	94
2261	Finishing plants, cotton	8	-	6	3	5	2	1	8	7	40
227	Floor covering mills	2	4	3	2	2	2	2	3	2	24
2272	Tufted carpets and rugs	2	2	1	1	1	2	1	2	2	15
228	Yarn and thread mills	2	1	5	1	-	1	2	7	3	33
2283	Wool yarn mills	1	1	2	1	-	1	-	5	-	5
229	Miscellaneous textile goods	4	3	6	2	3	2	1	4	4	44
2297	Scouring and combing plants	1	2	5	1	1	-	-	3	3	7
24	Lumber and wood products	34	5	21	9	5	3	11	22	23	122
242	Sawmills and planing mills	30	3	14	7	2	3	7	14	15	57
2421	Sawmills and planing mills	30	3	14	7	2	3	7	14	14	55
249	Miscellaneous wood products	3	1	5	1	2	-	2	4	5	16
2499	Wood products, n.e.c	3	1	3	-	1	-	2	3	3	11
25	Furniture and fixtures	(Z)	5	6	4	2	-	1	2	5	31
26	Paper and allied products	707	60	178	39	17	18	14	122	162	267
2611	Pulp mills	74	-	9	1	-	1	-	11	10	14
2621	Paper mills, except building	374	28	75	16	6	5	6	56	67	108
2631	Paperboard mills	242	21	62	14	7	4	2	42	68	55

See footnotes at end of table.

TABLE 8. Water Treated Prior to Discharge and Type of Treatment by Number of Establishments: 1964—Continued

A. INDUSTRY GROUPS AND INDUSTRIES—Continued

Code	Industry groups and industries	Water treated prior to discharge (billion gallons)	Number of establishments treating water prior to discharge by type of treatment								
			Coagulation	Settling		Trickling filters	Activated sludge	Digestion	Ponds or lagoons	Other	No treatment method
				Primary	Secondary						
26	Paper and allied products--Continued										
264	Paper and paperboard products	9	5	17	2	-	3	1	8	5	47
2641	Paper coating and glazing	7	1	9	-	-	1	-	1	1	18
2646	Pressed and molded pulp goods	1	3	4	1	-	1	-	3	-	12
265	Paperboard containers and boxes	2	2	3	1	2	1	1	-	1	23
2661	Building paper and board mills	5	4	12	5	2	4	4	5	11	20
28	Chemicals and allied products	580	48	264	107	54	63	78	227	244	514
281	Basic chemicals	421	14	118	46	22	26	29	122	128	249
2812	Alkalies and chlorine	129	-	3	-	1	-	1	6	6	16
2815	Intermediate coal tar products	48	1	18	7	3	5	1	21	23	12
2818	Organic chemicals, n.e.c	114	4	46	16	5	10	10	38	47	54
2819	Inorganic chemicals, n.e.c	103	8	40	18	12	10	17	44	38	93
282	Fibers, plastics, rubbers	119	22	70	29	12	16	31	60	48	53
2821	Plastics materials and resins	41	14	39	16	4	10	13	32	32	43
2822	Synthetic rubber	40	7	18	10	2	2	4	10	8	3
2823	Cellulosic man-made fibers	22	-	5	2	3	2	7	9	4	3
2824	Organic fibers, noncellulosic	17	1	8	1	3	2	7	9	4	4
283	Drugs	6	1	12	11	8	13	5	9	21	37
2834	Pharmaceutical preparations	4	1	6	5	4	7	2	5	15	31
284	Cleaning and toilet goods	2	3	8	4	-	1	1	2	6	37
2841	Soap and other detergents	2	2	6	1	-	-	1	1	4	19
2851	Paints and allied products	1	2	8	2	-	2	-	1	4	30
2861	Gum and wood chemicals	4	1	6	1	2	-	-	6	2	7
287	Agricultural chemicals	17	1	6	-	5	2	5	7	15	45
2871	Fertilizers	16	-	2	-	4	1	3	4	9	39
289	Miscellaneous chemical products	10	4	34	14	5	3	7	20	20	56
2891	Glue and gelatin	4	3	9	3	1	1	-	5	-	6
2899	Chemical preparations, n.e.c	4	1	12	5	-	-	1	11	14	27
29	Petroleum and coal products	1,006	25	145	78	14	19	13	106	84	69
2911	Petroleum refining	1,004	24	135	75	11	18	13	101	82	30
295	Paving and roofing materials	1	-	8	2	2	-	-	5	2	32
2952	Asphalt felts and coatings	1	-	8	2	2	-	-	5	2	24
30	Rubber and plastics products, n.e.c	9	5	18	9	5	9	9	11	18	227
3011	Tires and inner tubes	4	1	4	2	1	3	4	3	6	36
3069	Rubber products, n.e.c	1	3	10	6	1	4	3	3	6	96
3079	Plastics products, n.e.c	3	1	3	1	3	2	2	4	4	87
31	Leather and leather products	7	5	28	6	1	2	-	18	9	43
3111	Leather tanning and finishing	7	5	28	6	1	2	-	18	9	39
32	Stone, clay, and glass products	41	15	68	30	14	15	22	55	66	373
3211	Flat glass	8	1	4	5	-	-	2	6	2	8
322	Pressed and blown glassware	4	3	10	2	3	8	2	3	14	68
3221	Glass containers	1	1	3	2	3	3	1	2	9	46
3229	Pressed and blown glass, n.e.c	3	2	7	-	-	5	1	1	5	22
3241	Cement, hydraulic	2	-	14	3	8	1	10	10	20	99
327	Concrete and plaster products	4	1	10	2	1	1	5	12	5	79
3273	Ready mixed concrete	1	-	6	1	-	-	-	4	-	35
3281	Cut stone and stone products	1	-	3	1	-	-	-	1	1	15
329	Nonmetallic mineral products	20	6	22	12	2	2	2	17	13	74
3292	Asbestos products	3	2	11	6	1	1	-	11	4	20

See footnotes at end of table.

TABLE 8. Water Treated Prior to Discharge and Type of Treatment by Number of Establishments: 1964—Continued

A. INDUSTRY GROUPS AND INDUSTRIES—Continued

Code	Industry groups and industries	Water treated prior to discharge (billion gallons)	Number of establishments treating water prior to discharge by type of treatment								
			Coagulation	Settling		Trickling filters	Activated sludge	Digestion	Ponds or lagoons	Other	No treatment method
				Primary	Secondary						
33	Primary metal industries	1,178	43	153	59	34	23	51	85	123	477
331	Steel rolling and finishing	1,103	19	81	32	15	9	21	41	65	141
3312	Blast furnaces and steel mills	1,041	14	66	26	8	5	9	28	45	93
332	Iron and steel foundries	4	3	13	3	-	3	1	8	4	108
3321	Gray iron foundries	3	-	8	1	-	2	-	5	1	55
3323	Steel foundries	1	3	4	2	-	1	1	3	3	43
333	Primary nonferrous metal	51	7	21	8	9	8	15	19	17	26
3331	Primary copper	8	2	5	2	1	-	2	5	4	11
3334	Primary aluminum	14	2	12	6	6	6	9	4	7	4
335	Nonferrous rolling and drawing	17	7	21	8	6	2	13	11	27	112
3351	Copper rolling and drawing	7	2	6	1	1	1	2	6	12	29
3356	Rolling and drawing, n.e.c	1	1	3	1	-	-	1	1	4	10
336	Nonferrous foundries	1	2	5	1	1	-	1	3	6	33
34	Fabricated metal products	9	20	26	13	8	3	8	33	55	371
342	Cutlery, hand tools, hardware	2	7	8	6	-	-	-	7	8	49
344	Structural metal products	5	1	4	2	2	1	3	7	8	56
3461	Metal stampings	1	3	1	-	1	-	-	4	11	47
347	Metal services, n.e.c	1	1	5	-	1	-	2	7	7	65
3471	Plating and polishing	1	1	5	-	1	-	2	6	7	60
349	Fabricated metal products, n.e.c	1	2	1	-	-	1	3	4	3	59
35	Machinery, except electrical	12	19	44	20	11	8	13	28	40	299
351	Engines and turbines	3	3	8	4	1	-	1	3	6	25
355	Special industry machinery	1	1	3	1	1	1	1	2	4	28
3552	Textile machinery	1	-	1	-	1	-	-	2	2	8
356	General industrial machinery	1	4	11	3	2	3	2	8	6	63
3562	Ball and roller bearings	1	2	6	2	1	2	2	4	4	16
357	Office machines, n.e.c	1	2	4	3	3	1	3	2	8	15
36	Electrical machinery	15	19	48	32	12	18	21	29	141	280
361	Electric distribution products	1	2	5	4	-	2	3	6	11	27
3613	Switchgear and switchboards	1	1	3	2	-	1	2	4	8	7
362	Electric industrial apparatus	4	1	7	6	-	1	-	4	9	48
363	Household appliances	2	5	7	4	1	1	-	4	12	44
3633	Household laundry equipment	1	3	3	2	-	-	-	2	1	6
365	Radio and TV receiving equipment	1	1	-	-	-	-	-	-	4	14
366	Communication equipment	2	5	9	7	5	7	7	5	34	32
367	Electronic components	4	4	14	7	6	5	9	7	39	50
3674	Semiconductors	1	2	3	2	2	2	2	3	15	3
3679	Electronic components, n.e.c	1	2	8	3	2	3	5	4	17	29
369	Electrical products, n.e.c	1	1	2	3	-	1	2	2	21	22
37	Transportation equipment	24	54	80	45	24	28	30	41	65	248
371	Motor vehicles and equipment	16	42	49	25	10	12	9	25	25	148
3717	Motor vehicles and parts	16	41	48	24	10	12	9	24	25	143
372	Aircraft and parts	7	9	26	16	13	14	20	15	36	50
3721	Aircraft	2	2	8	5	5	4	7	3	9	11
3722	Aircraft engines and parts	4	2	9	5	3	7	7	8	12	14
3729	Aircraft equipment, n.e.c	1	4	8	5	4	2	5	4	15	24
374	Railroad equipment	1	2	2	2	-	-	-	1	3	17
38	Instruments and related products	9	6	9	6	1	2	2	8	19	69
3861	Photographic equipment	8	1	3	2	-	-	-	3	6	14

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries whether or not separate figures are shown for the individual industries.

- Represents zero.
(Z) Less than 500 million gallons.
[1]Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 23 and 27. In 1959, such establishments had total water intake of 23 billion gallons, gross water use of 58 billion gallons, discharge of 22 billion gallons of water, and 152 thousand employees. Data for Major Group 19 is included in all total figures but was considered too insignificant to publish.

TABLE 8. Water Treated Prior to Discharge and Type of Treatment by Number of Establishments: 1964

B. WATER USE REGIONS, MAJOR INDUSTRY GROUPS, AND INDUSTRIES

Code	Water use regions and major industry groups	Water treated prior to discharge (billion gallons)	Number of establishments treating water prior to discharge by type of treatment									
			Coagulation	Settling		Trickling filters	Activated sludge	Digestion	Ponds or lagoons	Other	No treatment method
				Primary	Secondary						
	United States, total[1]	3,826	384	1,375	572	283	272	357	1,019	1,477	5,665
	New England	55	19	86	23	15	15	14	50	83	505
20	Food and kindred products	2	-	4	1	1	2	-	1	5	51
22	Textile mill products	4	3	8	2	3	1	-	4	7	87
26	Paper and allied products	29	6	22	1	2	1	-	14	18	64
28	Chemicals and allied products	11	5	12	5	2	2	1	5	4	28
30	Rubber and plastics products, n.e.c.	1	-	4	2	-	-	1	1	3	41
31	Leather and leather products	3	-	7	-	-	-	-	5	2	6
33	Primary metal industries	1	2	8	2	2	1	3	3	8	51
34	Fabricated metal products	1	2	2	2	1	-	-	5	4	37
35	Machinery, except electrical	1	-	2	1	2	-	-	1	6	34
37	Transportation equipment	1	-	2	1	1	4	3	3	4	10
	Delaware and Hudson	482	43	146	75	27	40	32	95	176	636
20	Food and kindred products	5	4	13	6	3	-	6	2	14	154
22	Textile mill products	2	8	3	2	1	4	-	3	7	51
26	Paper and allied products	28	10	18	4	1	5	-	10	20	35
28	Chemicals and allied products	91	6	45	22	8	14	6	33	53	88
29	Petroleum and coal products	247	1	15	7	-	-	1	10	9	4
32	Stone, clay, and glass products	4	1	8	4	-	1	1	8	10	43
33	Primary metal industries	91	3	15	10	6	2	3	11	14	65
34	Fabricated metal products	4	2	2	2	-	-	-	3	8	33
35	Machinery, except electrical	3	-	5	5	1	3	3	2	5	24
36	Electrical machinery	4	3	9	7	2	5	5	3	21	38
37	Transportation equipment	1	2	5	3	2	3	4	2	6	21
	Chesapeake Bay	183	21	65	39	25	18	15	71	82	262
20	Food and kindred products	3	1	12	8	5	2	-	17	19	97
22	Textile mill products	2	3	3	4	3	-	1	4	2	12
26	Paper and allied products	47	5	10	4	2	6	1	10	10	6
28	Chemicals and allied products	23	2	9	4	4	2	3	14	13	28
36	Electrical machinery	1	-	2	3	3	-	1	3	7	14
	Eastern Great Lakes-St. Lawrence	456	52	125	55	20	20	20	80	131	535
20	Food and kindred products	4	2	12	8	3	5	3	11	22	128
26	Paper and allied products	27	4	10	4	2	1	1	6	12	19
28	Chemicals and allied products	112	4	22	5	3	1	6	20	16	51
29	Petroleum and coal products	40	1	12	6	-	2	-	1	8	4
30	Rubber and plastics products, n.e.c.	2	-	5	1	2	1	1	2	4	32
32	Stone, clay, and glass products	4	3	8	5	1	2	1	8	10	28
33	Primary metal industries	249	3	20	6	2	1	1	13	18	65
34	Fabricated metal products	1	6	6	5	1	1	1	3	5	39
36	Electrical machinery	1	2	5	2	-	1	1	6	11	43
37	Transportation equipment	9	23	18	10	5	2	3	7	14	58
38	Instruments and related products	7	1	2	1	-	-	-	-	4	11
	Ohio River	415	69	181	76	42	33	54	118	155	642
20	Food and kindred products	3	1	13	2	4	2	6	4	13	156
26	Paper and allied products	21	5	20	5	2	1	1	7	12	17
28	Chemicals and allied products	96	9	44	24	16	12	19	43	37	46
29	Petroleum and coal products	16	3	13	9	2	1	-	6	8	6
30	Rubber and plastics products, n.e.c.	1	3	4	3	1	3	1	2	-	40
32	Stone, clay, and glass products	2	3	11	3	4	3	2	7	7	61
33	Primary metal industries	267	17	44	11	7	4	14	20	23	97
34	Fabricated metal products	1	5	5	1	2	1	1	6	9	63
35	Machinery, except electrical	1	4	5	3	3	-	2	6	5	42
36	Electrical machinery	4	5	4	5	-	1	3	4	29	48
37	Transportation equipment	2	10	10	6	-	3	3	8	7	36
	Tennessee	111	8	31	16	12	11	15	28	33	97
22	Textile mill products	3	-	4	2	1	3	-	4	3	20
26	Paper and allied products	30	-	5	-	1	1	1	2	2	4
28	Chemicals and allied products	60	-	9	4	3	2	4	15	12	14
33	Primary metal industries	15	3	4	4	4	1	3	3	5	8
36	Electrical machinery	1	2	4	3	1	2	4	1	5	3
	Southeast	329	28	125	54	35	24	58	124	117	589
20	Food and kindred products	6	2	9	4	4	1	5	15	26	155
22	Textile mill products	22	6	38	24	16	11	28	38	25	237
24	Lumber and wood products	1	-	3	1	-	-	1	1	1	12

See footnotes at end of table.

TABLE 8. Water Treated Prior to Discharge and Type of Treatment by Number of Establishments: 1964—Continued

B. WATER USE REGIONS, MAJOR INDUSTRY GROUPS, AND INDUSTRIES—Continued

Code	Water use regions and major industry groups	Water treated prior to discharge (billion gallons)	Number of establishments treating water prior to discharge by type of treatment								
			Coagulation	Settling		Trickling filters	Activated sludge	Digestion	Ponds or lagoons	Other	No treatment method
				Primary	Secondary						
	Southeast--Continued										
26	Paper and allied products	231	5	24	3	1	-	3	23	16	18
28	Chemicals and allied products	32	6	17	5	4	3	8	22	10	54
29	Petroleum and coal products	4	1	3	2	1	-	-	3	2	3
32	Stone, clay, and glass products	5	3	7	2	1	3	4	4	8	25
33	Primary metal industries	21	1	4	1	-	1	1	2	-	27
34	Fabricated metal products	1	-	4	2	1	1	1	4	4	20
36	Electrical machinery	1	-	5	3	3	3	3	3	12	10
37	Transportation equipment	2	1	6	4	3	1	2	2	2	6
	Western Great Lakes	546	46	147	52	20	17	17	81	133	673
20	Food and kindred products	14	3	18	5	6	1	3	19	35	157
26	Paper and allied products	61	9	27	7	2	1	2	11	24	37
28	Chemicals and allied products	45	4	28	9	4	6	3	9	16	43
29	Petroleum and coal products	104	2	15	3	-	-	-	9	3	9
30	Rubber and plastics products, n.e.c.	1	1	1	1	-	1	1	-	1	22
31	Leather and leather products	2	3	4	-	-	-	-	1	4	10
32	Stone, clay, and glass products	3	1	3	2	1	2	-	2	1	26
34	Fabricated metal products	1	2	3	1	1	-	3	7	10	80
35	Machinery, except electrical	1	3	10	3	-	-	-	7	8	66
36	Electrical machinery	1	-	4	1	1	1	-	4	6	48
37	Transportation equipment	4	8	11	7	2	2	1	1	10	53
	Upper Mississippi	173	26	77	25	18	15	20	67	107	455
20	Food and kindred products	20	3	32	9	9	5	8	30	57	195
26	Paper and allied products	35	10	7	1	-	1	1	6	14	17
28	Chemicals and allied products	15	1	7	2	-	3	3	7	5	33
29	Petroleum and coal products	8	-	4	3	2	2	1	5	5	3
32	Stone, clay, and glass products	2	-	5	3	-	-	2	5	-	28
33	Primary metal industries	84	1	6	-	1	1	-	3	4	26
36	Electrical machinery	2	1	2	1	-	-	-	-	7	24
37	Transportation equipment	1	2	2	1	-	1	-	2	3	11
	Lower Mississippi	136	2	27	13	6	7	9	19	32	147
20	Food and kindred products	12	-	4	1	-	-	-	12	6	78
28	Chemicals and allied products	19	1	11	5	3	3	6	2	14	15
	Missouri	62	11	46	18	9	8	12	47	49	160
20	Food and kindred products	36	2	26	4	3	2	3	24	27	96
28	Chemicals and allied products	2	-	1	-	1	1	1	5	3	15
29	Petroleum and coal products	20	1	9	6	-	1	1	11	6	5
	Arkansas White and Red	88	16	67	23	12	12	10	51	44	170
20	Food and kindred products	2	-	10	1	2	2	-	3	9	77
26	Paper and allied products	66	1	12	4	-	1	3	12	3	6
28	Chemicals and allied products	4	2	8	2	1	2	2	7	9	22
29	Petroleum and coal products	13	9	22	10	1	5	-	19	11	9
33	Primary metal industries	1	1	2	2	2	1	3	2	1	6
	Western Gulf	384	16	89	45	20	21	33	57	85	172
20	Food and kindred products	2	1	10	3	1	1	2	5	9	71
26	Paper and allied products	22	1	2	1	-	-	-	1	2	2
28	Chemicals and allied products	25	5	36	16	4	8	13	22	33	30
29	Petroleum and coal products	304	5	27	15	4	5	6	21	16	9
36	Electrical machinery	1	-	-	-	-	-	-	-	4	1
37	Transportation equipment	1	-	3	2	3	1	4	3	5	5
	Colorado Basin	5	2	6	6	1	1	4	9	11	22
20	Food and kindred products	2	-	2	1	-	1	1	1	4	5
33	Primary metal industries	1	1	1	2	1	-	1	2	3	5
	Great Basin	17	1	13	4	2	2	6	7	10	21
20	Food and kindred products	2	1	4	-	-	1	-	-	7	11
29	Petroleum and coal products	2	-	3	2	-	-	-	2	-	-
33	Primary metal industries	13	-	3	-	1	-	3	1	1	1

See footnotes at end of table.

TABLE 8. Water Treated Prior to Discharge and Type of Treatment by Number of Establishments: 1964—Continued

B. WATER USE REGIONS, MAJOR INDUSTRY GROUPS, AND INDUSTRIES—Continued

Code	Water use regions and major industry groups	Water treated prior to discharge (billion gallons)	Number of establishments treating water prior to discharge by type of treatment								
			Coagulation	Settling		Trickling filters	Activated sludge	Digestion	Ponds or lagoons	Other	No treatment method
				Primary	Secondary						
	California	190	19	76	30	11	13	15	50	140	349
20	Food and kindred products	13	6	18	6	3	1	3	12	56	179
26	Paper and allied products	17	2	6	1	-	-	-	2	10	13
28	Chemicals and allied products	14	3	9	2	-	3	-	10	12	28
37	Transportation equipment	2	1	8	5	3	3	1	5	5	13
	Pacific Northwest	160	5	59	17	8	12	20	54	78	188
24	Lumber and wood products	14	2	9	4	-	1	3	10	13	59
26	Paper and allied products	88	1	13	2	3	-	1	16	16	14
28	Chemicals and allied products	18	-	4	2	1	1	3	7	6	10
29	Petroleum and coal products	2	-	4	2	2	3	2	2	2	-
32	Stone, clay, and glass products	1	-	4	1	-	-	1	3	1	9
33	Primary metal industries	20	-	9	1	-	2	6	6	6	5
	Cumberland	16	-	5	-	-	3	1	7	4	16
28	Chemicals and allied products	12	-	-	-	-	-	-	4	1	2
	Alaska and Hawaii	19	-	4	1	-	-	2	4	7	24
20	Food and kindred products	17	-	2	-	-	-	1	3	6	20

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries.

- Represents zero.
(Z) Less than 500 million gallons.
[1]Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 23 and 27. In 1959, such establishments had total water intake of 23 billion gallons, gross water use of 58 billion gallons, discharge of 22 billion gallons of water, and 152 thousand employees. Data for Major Group 19 is included in all total figures but was considered too insignificant to publish.

TABLE 8. Water Treated Prior to Discharge and Type of Treatment by Number of Establishments: 1964

C. STATES AND MAJOR INDUSTRY GROUPS

Code	States and major industry groups	Water treated prior to discharge (billion gallons)	Number of establishments treating water prior to discharge by type of treatment								
			Coagulation	Settling		Trickling filters	Activated sludge	Digestion	Ponds or lagoons	Other	No treatment method
				Primary	Secondary						
	United States, total[1]	3,826	384	1,375	572	283	272	357	1,019	1,477	5,665
	New England division	54	19	86	23	14	15	15	52	85	518
	Maine	20	-	5	2	1	2	-	8	10	43
26	Paper and allied products	9	-	2	-	-	-	-	2	5	15
31	Leather and leather products	1	-	1	-	-	-	-	4	-	2
	New Hampshire	5	-	2	-	-	-	1	2	7	28
	Vermont	1	-	3	2	1	1	1	2	5	21
26	Paper and allied products	1	-	1	-	1	-	-	-	3	2
	Massachusetts	16	9	41	9	4	6	4	15	28	226
22	Textile mill products	1	2	6	1	-	1	-	1	4	36
26	Paper and allied products	11	3	11	1	1	1	-	7	4	34
28	Chemicals and allied products	2	3	8	3	1	1	-	2	2	18
31	Leather and leather products	1	-	4	-	-	-	-	1	-	3
	Rhode Island	3	3	3	2	3	1	2	6	5	56
22	Textile mill products	3	1	2	1	2	-	-	3	2	18
	Connecticut	9	7	32	8	5	5	7	19	30	144
26	Paper and allied products	5	3	7	-	-	-	-	3	3	7
	Middle Atlantic division	711	80	244	124	50	58	47	165	303	1,062
	New York	211	14	57	27	12	10	17	47	109	389
20	Food and kindred products	2	1	6	5	1	2	3	10	21	118
26	Paper and allied products	15	3	5	3	1	2	1	5	19	33
28	Chemicals and allied products	48	1	9	2	4	1	2	7	5	43
32	Stone,clay, and glass products	3	-	5	1	-	-	-	2	10	21
33	Primary metal industries	96	1	8	2	2	-	1	8	11	33
34	Fabricated metal products	1	1	-	1	-	-	-	2	4	11
35	Machinery, except electrical	2	-	3	4	1	1	2	2	6	20
36	Electrical machinery	4	2	10	6	2	2	3	4	14	27
38	Instruments and related products	7	1	2	1	-	-	-	1	6	14
	New Jersey	132	19	72	33	11	23	12	43	82	273
20	Food and kindred products	4	3	7	4	3	-	3	1	8	49
22	Textile mill products	1	5	1	2	1	4	-	1	3	17
26	Paper and allied products	11	2	8	1	-	2	-	2	7	8
28	Chemicals and allied products	81	4	29	13	3	10	3	21	35	56
29	Petroleum and coal products	32	-	9	3	-	-	-	6	5	1
33	Primary metal industries	1	1	4	2	1	1	-	-	4	34
37	Transportation equipment	1	2	3	2	2	2	2	1	2	7
	Pennsylvania	368	47	115	64	27	25	18	75	112	400
20	Food and kindred products	1	1	8	3	3	2	-	6	7	73
22	Textile mill products	1	5	4	3	1	-	-	4	3	24
26	Paper and allied products	32	7	15	5	1	5	1	10	9	15
28	Chemicals and allied products	7	3	15	10	4	4	3	13	26	28
29	Petroleum and coal products	98	3	10	6	1	-	1	4	6	4
32	Stone, clay, and glass products	4	1	8	2	2	2	-	2	5	45
33	Primary metal industries	218	8	32	15	7	3	6	17	21	66
36	Electrical machinery	1	4	4	5	1	1	-	3	17	28
	East North Central division	1,107	152	375	149	64	61	78	236	346	1,576
	Ohio	255	51	132	54	17	24	29	77	91	405
20	Food and kindred products	3	3	11	5	2	3	4	4	11	90
26	Paper and allied products	16	4	20	6	1	-	-	6	11	9
28	Chemicals and allied products	28	5	24	12	5	2	12	23	16	36
29	Petroleum and coal products	22	-	12	7	-	3	-	1	7	5
30	Rubber and plastics products, n.e.c.	1	2	4	1	3	3	-	2	1	43
32	Stone, clay, and glass products	2	3	5	5	1	2	1	11	8	26
33	Primary metal industries	179	5	26	4	2	3	8	13	10	58
34	Fabricated metal products	1	9	9	5	2	1	-	5	5	38
37	Transportation equipment	2	13	12	5	-	2	-	6	8	30
	Indiana	357	24	46	20	13	8	17	31	50	219
20	Food and kindred products	5	1	5	1	1	1	1	3	5	44
26	Paper and allied products	3	2	1	-	1	-	-	1	3	5
28	Chemicals and allied products	21	2	10	4	4	3	5	8	10	7
33	Primary metal industries	(D)	7	9	4	3	2	4	5	3	28
35	Machinery, except electrical	1	1	3	3	2	-	1	5	4	21
36	Electrical machinery	1	1	-	1	-	-	1	-	12	24
37	Transportation equipment	2	6	5	3	-	-	3	4	3	25

See footnotes at end of table.

TABLE 8. Water Treated Prior to Discharge and Type of Treatment by Number of Establishments: 1964—Continued

C. STATES AND MAJOR INDUSTRY GROUPS—Continued

Code	States and major industry groups	Water treated prior to discharge (billion gallons)	Number of establishments treating water prior to discharge by type of treatment								
			Coagulation	Settling		Trickling filters	Activated sludge	Digestion	Ponds or lagoons	Other	No treatment method
				Primary	Secondary						
	East North Central division--Continued										
	Illinois	187	28	82	35	9	14	13	45	69	408
20	Food and kindred products	3	1	14	5	-	3	2	10	19	112
28	Chemicals and allied products	6	3	21	4	-	2	3	8	6	36
29	Petroleum and coal products	31	-	11	4	2	1	-	7	4	6
30	Rubber and plastics products, n.e.c.	1	1	1	1	-	1	2	-	2	10
32	Stone, clay, and glass products	2	-	3	4	-	-	1	5	-	22
33	Primary metal industries	130	4	12	5	2	1	1	5	7	33
34	Fabricated metal products	(Z)	2	-	-	1	-	1	2	7	48
35	Machinery, except electrical	(D)	8	5	3	2	1	2	3	4	47
36	Electrical machinery	1	-	1	1	1	1	-	-	10	38
37	Transportation equipment	1	3	2	2	1	2	1	1	3	12
	Michigan	242	36	79	33	19	9	14	47	73	294
20	Food and kindred products	3	2	7	2	4	1	3	9	13	57
28	Chemicals and allied products	(D)	1	10	6	4	6	2	7	6	21
29	Petroleum and coal products	4	2	4	3	-	-	-	3	3	3
31	Leather and leather products	1	1	2	-	-	-	-	1	1	-
33	Primary metal industries	108	3	10	5	1	-	1	6	13	39
34	Fabricated metal products	1	2	1	1	1	-	4	7	6	27
37	Transportation equipment	10	17	18	13	6	2	3	5	13	60
	Wisconsin	66	13	36	7	6	6	5	36	63	250
20	Food and kindred products	8	-	7	2	6	2	3	16	33	86
26	Paper and allied products	53	10	10	3	-	2	2	8	17	21
	West North Central division	82	20	85	24	18	10	15	64	98	431
	Minnesota	14	4	13	4	4	1	3	18	33	104
20	Food and kindred products	5	-	7	2	2	-	2	11	22	60
26	Paper and allied products	6	3	2	-	-	-	-	1	2	4
	Iowa	36	2	22	6	6	1	4	12	12	86
20	Food and kindred products	12	1	17	4	4	-	1	6	7	53
	Missouri	7	5	14	4	3	6	3	11	17	151
20	Food and kindred products	2	-	4	-	2	1	-	1	6	63
28	Chemicals and allied products	1	1	1	-	-	2	1	2	4	19
	North Dakota	1	-	2	-	-	-	1	1	2	4
	South Dakota	5	2	5	2	1	-	1	1	4	8
	Nebraska	10	2	10	2	2	1	2	8	7	40
20	Food and kindred products	9	-	7	-	-	-	-	5	5	27
	Kansas	9	5	19	6	2	1	1	13	23	38
20	Food and kindred products	1	-	8	1	-	1	-	-	5	17
28	Chemicals and allied products	2	-	1	-	1	-	-	3	5	9
29	Petroleum and coal products	4	2	6	2	-	-	-	7	5	1
	South Atlantic division	566	31	176	83	58	41	77	173	176	692
	Delaware	(D)	2	9	3	-	1	3	11	7	24
20	Food and kindred products	1	-	2	-	-	-	1	1	2	12
26	Paper and kindred products	(D)	1	1	-	-	-	-	1	1	1
28	Chemicals and allied products	(D)	1	5	2	-	1	2	5	2	1
	Maryland	94	3	20	8	8	4	5	12	25	95
20	Food and kindred products	1	-	2	1	2	-	-	1	6	51
	Virginia	69	6	27	17	15	7	15	35	27	78
20	Food and kindred products	1	-	5	4	2	-	-	8	4	16
22	Textile mill products	4	2	6	3	3	-	5	8	1	11
26	Paper and allied products	23	1	3	2	1	2	2	5	3	3
28	Chemicals and allied products	18	2	6	4	5	4	3	8	8	12
	West Virginia	62	2	23	8	6	8	5	20	18	40
28	Chemicals and allied products	56	1	17	8	4	5	4	15	14	4
	North Carolina	55	6	34	17	5	9	15	23	40	152
20	Food and kindred products	1	-	1	1	-	-	-	3	6	28
22	Textile mill products	9	2	18	11	4	8	8	13	16	93
26	Paper and allied products	40	-	3	-	1	-	2	2	3	1
	South Carolina	(D)	6	24	14	10	4	13	30	9	98
22	Textile mill products	(D)	3	12	10	8	2	9	14	5	62

See footnotes at end of table.

TABLE 8. Water Treated Prior to Discharge and Type of Treatment by Number of Establishments: 1964—Continued

C. STATES AND MAJOR INDUSTRY GROUPS—Continued

Code	States and major industry groups	Water treated prior to discharge (billion gallons)	Number of establishments treating water prior to discharge by type of treatment								
			Coagulation	Settling		Trickling filters	Activated sludge	Digestion	Ponds or lagoons	Other	No treatment method
				Primary	Secondary						
	South Atlantic division--Continued										
	Georgia	76	2	18	8	4	3	11	24	22	142
20	Food and kindred products	2	1	1	-	-	1	-	4	4	45
22	Textile mill products	4	-	5	2	1	2	6	7	6	54
26	Paper and allied products	57	-	4	2	1	-	1	6	4	9
28	Chemicals and allied products	10	-	-	-	-	-	2	2	-	15
32	Stone, clay, and glass products	1	-	2	-	-	-	-	2	2	8
	Florida	80	4	21	8	10	5	10	18	28	57
26	Paper and allied products	61	-	5	-	-	-	-	4	2	3
28	Chemicals and allied products	16	4	5	2	3	1	-	6	4	10
	East South Central division	272	21	72	28	21	21	26	69	72	362
	Kentucky	61	6	18	9	4	3	6	17	20	84
28	Chemicals and allied products	42	2	6	4	1	-	1	10	6	7
33	Primary metal industries	8	2	4	2	1	1	2	3	2	3
	Tennessee	96	2	24	9	8	11	10	23	31	120
20	Food and kindred products	1	-	2	-	-	1	-	-	3	42
26	Paper and allied products	12	-	3	-	-	1	-	3	3	5
28	Chemicals and allied products	61	-	7	2	3	1	6	12	12	13
	Alabama	91	11	22	8	8	6	9	18	14	110
26	Paper and allied products	59	4	8	-	-	-	-	7	3	2
28	Chemicals and allied products	4	-	3	1	-	2	-	4	3	16
	Mississippi	24	2	8	2	1	1	1	11	7	48
20	Food and kindred products	1	-	1	-	-	-	-	2	1	21
	West South Central division	607	30	162	76	33	34	48	109	130	368
	Arkansas	32	2	16	6	5	2	6	13	11	61
24	Lumber and wood products	(Z)	-	2	-	-	-	-	3	-	5
	Louisiana	299	3	36	18	6	4	9	29	28	103
20	Food and kindred products	11	-	3	1	-	-	-	12	5	47
26	Paper and allied products	47	-	6	1	-	-	-	4	2	6
28	Chemicals and allied products	19	2	15	8	4	3	7	8	13	15
29	Petroleum and coal products	222	-	8	5	1	-	2	5	5	6
	Oklahoma	7	6	16	6	1	5	2	14	9	30
29	Petroleum and coal products	4	3	8	4	-	3	-	7	4	2
	Texas	269	19	94	46	21	23	31	53	82	174
20	Food and kindred products	2	1	9	3	1	1	2	5	7	68
28	Chemicals and allied products	25	5	37	15	3	8	11	20	32	29
29	Petroleum and coal products	189	8	29	16	4	7	5	19	16	9
37	Transportation equipment	1	-	3	2	3	1	4	3	5	5
	Mountain division	75	7	48	20	7	11	17	52	56	115
	Montana	21	-	7	3	-	1	1	5	6	15
20	Food and kindred products	4	-	1	-	-	-	-	-	3	4
	Idaho	14	-	9	1	1	3	3	8	15	19
20	Food and kindred products	11	-	7	-	-	2	1	3	10	14
28	Chemicals and allied products	1	-	1	1	1	1	1	4	2	1
	Wyoming	4	-	1	1	-	-	-	7	3	6
29	Petroleum and coal products	1	-	1	1	-	-	-	4	1	2
	Colorado	16	4	13	6	3	4	4	19	12	33
20	Food and kindred products	14	1	6	1	1	2	1	12	7	18
29	Petroleum and coal products	1	1	4	3	-	1	1	3	1	1
	Arizona	1	2	4	5	1	1	3	4	7	14
33	Primary metal industries	1	1	1	2	1	-	1	2	2	5
	Utah	17	1	12	4	1	2	5	6	9	17
20	Food and kindred products	2	1	4	-	-	1	-	-	6	10
	Nevada	2	-	1	-	1	-	1	3	2	5

See footnotes at end of table.

TABLE 8. Water Treated Prior to Discharge and Type of Treatment by Number of Establishments: 1964—Continued

C. STATES AND MAJOR INDUSTRY GROUPS—Continued

Code	States and major industry groups	Water treated prior to discharge (billion gallons)	Number of establishments treating water prior to discharge by type of treatment								
			Coagulation	Settling		Trickling filters	Activated sludge	Digestion	Ponds or lagoons	Other	No treatment method
				Primary	Secondary						
	Pacific division	351	24	127	45	18	21	34	99	210	538
	Washington	104	3	34	10	6	6	14	24	41	80
20	Food and kindred products	4	1	7	5	2	1	2	4	17	34
26	Paper and allied products	61	1	10	-	2	-	1	10	9	8
29	Petroleum and coal products	2	-	3	2	2	3	2	2	2	-
32	Stone, clay, and glass products	1	-	3	1	-	-	1	2	1	6
33	Primary metal industries	15	-	5	-	-	1	5	1	5	3
	Oregon	38	2	14	5	1	2	2	20	22	86
20	Food and kindred products	2	-	1	-	-	1	1	2	5	28
24	Lumber and wood products	8	1	5	3	-	-	-	7	9	41
26	Paper and allied products	23	-	3	2	1	-	-	5	5	6
33	Primary metal industries	4	-	2	-	-	-	-	3	1	1
	California	190	19	75	29	11	13	16	51	140	348
20	Food and kindred products	13	6	19	6	3	1	3	13	57	179
26	Paper and allied products	17	2	6	1	-	-	-	2	10	13
28	Chemicals and allied products	14	3	9	2	-	3	-	10	12	28
29	Petroleum and coal products	110	2	10	7	-	-	-	10	6	6
37	Transportation equipment	2	1	8	5	3	3	1	5	5	13
	Alaska and Hawaii	19	-	4	1	-	-	2	4	7	24

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries.

- Represents zero.
(D) Withheld to avoid disclosing figures for individual companies.
(Z) Less than 500 million gallons.
[1]Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 23 and 27. In 1959, such establishments had total water intake of 23 billion gallons, gross water use of 58 billion gallons, discharge of 22 billion gallons of water, and 152 thousand employees. Data for Major Group 19 is included in all total figures but was considered too insignificant to publish.

TABLE 9. Water Intake by Purpose, Gross Water Used, and Water Treated and

(In billion gallons

Code	Industry group and industry	All employees (number)	Water intake by purpose					Gross water used, including recirculation or reuse
			Total	Process	Cooling and condensing		Boiler feed, sanitary service, and other uses	
					Steam electric power generation	Other		
	United States, total[1]	3,125,870	9,440	2,272	1,757	4,790	623	22,402
20	Food and kindred products	207,055	322	119	27	143	34	509
201	Meat products	79,735	59	26	2	16	14	100
202	Dairies	8,200	16	6	2	5	2	34
203	Canned and frozen foods	59,562	51	27	1	19	5	75
204	Grain mills	13,309	27	3	5	16	3	41
206	Sugar	13,272	113	49	12	49	3	167
208	Beverages	14,372	26	5	4	15	3	43
209	Miscellaneous foods and kindred products	10,846	29	2	1	23	3	48
22	Textile mill products	115,302	54	37	2	7	7	90
221	Weaving mills, cotton	46,167	10	6	(Z)	1	3	18
222	Weaving mills, synthetics	14,952	3	2	-	1	1	8
223	Weaving, finishing mills, wool	7,785	5	4	(Z)	(Z)	(Z)	5
225	Knitting mills	5,545	2	2	-	(Z)	(Z)	3
226	Textile finishing, except wool	16,819	19	16	1	(Z)	2	23
227	Floor covering mills	6,876	3	2	(Z)	(Z)	(Z)	16
228	Yarn and thread mills	9,110	3	2	-	(Z)	(Z)	5
229	Miscellaneous textile goods	8,048	8	2	(Z)	5	(Z)	14
24	Lumber and wood products	29,541	80	26	38	5	12	126
242	Sawmills and planing mills	19,846	69	21	35	3	10	100
243	Millwork and related products	4,345	4	(Z)	2	1	1	5
249	Miscellaneous wood products	5,350	8	4	1	1	2	20
25	Furniture and fixtures	11,389	1	(Z)	(Z)	(Z)	(Z)	1
26	Paper and allied products	155,727	1,466	929	310	137	90	4,538
261	Pulp mills	7,339	164	132	7	18	7	555
262	Paper mills, except building	87,292	816	490	214	56	57	2,385
263	Paperboard mills	41,352	445	284	79	60	22	1,484
264	Paper and paperboard products	9,544	20	13	3	1	3	65
265	Paperboard containers and boxes	4,579	3	1	1	1	(Z)	5
266	Building paper and board mills	5,621	17	9	6	1	1	43
28	Chemicals and allied products	321,270	2,168	198	213	1,616	141	4,695
281	Basic chemicals	132,727	1,586	105	159	1,242	80	3,338
282	Fibers, plastics, rubbers	109,737	399	55	43	272	29	943
283	Drugs	36,196	28	3	(Z)	22	3	60
284	Cleaning and toilet goods	9,656	16	1	1	12	1	22
285	Paints and allied products	5,383	3	1	(Z)	2	(Z)	5
286	Gum and wood chemicals	2,662	12	2	(Z)	9	1	100
287	Agricultural chemicals	6,259	72	22	6	23	21	143
289	Miscellaneous chemical products	18,650	52	11	3	33	5	83
29	Petroleum and coal products	110,348	1,326	85	83	1,062	95	5,969
291	Petroleum refining	107,542	1,320	83	81	1,061	95	5,962
295	Paving and roofing materials	2,611	5	2	2	1	(Z)	7
30	Rubber and plastics products, n.e.c.	66,921	41	6	10	20	6	134
301	Tires and inner tubes	35,656	29	2	10	14	4	114
302	Rubber footwear	12,776	1	(Z)	-	1	(Z)	2
307	Plastics products, n.e.c.	7,272	6	3	(Z)	2	1	9
31	Leather and leather products	10,720	8	7	(Z)	(Z)	1	10
311	Leather tanning and finishing	10,720	8	7	(Z)	(Z)	1	10
32	Stone, clay, and glass products	82,975	104	42	28	24	9	173
322	Pressed and blown glassware	27,576	8	3	(Z)	4	2	32
325	Structural clay products	3,106	1	(Z)	-	(Z)	(Z)	1
326	Pottery and related products	7,547	1	(Z)	-	(Z)	(Z)	2
327	Concrete and plaster products	5,012	6	5	-	(Z)	1	10
328	Cut stone and stone products	1,281	1	1	-	-	(Z)	1
329	Nonmetallic mineral products	16,373	26	20	1	2	3	38

See footnotes at end of table.

Discharged by Point of Discharge for Establishments Treating Water: 1964

except employees)

Water discharged and treated											Code
Total	Point of discharge										
	Public utility sewer			Surface water body			Ground (wells, spray, etc.)			Discharge point not specified	
	Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
8,876	387	31	271	8,281	390	6,179	111	(Z)	83	98	
292	75	15	36	178	10	104	35	(Z)	28	4	20
55	36	12	14	18	(Z)	12	1	-	1	(Z)	201
15	9	(Z)	3	6	(Z)	3	1	-	(Z)	(Z)	202
48	14	1	5	27	2	15	8	(Z)	5	1	203
25	4	(Z)	3	21	(Z)	17	(Z)	-	(Z)	-	204
99	1	-	1	72	7	34	24	-	21	3	206
25	6	1	5	17	-	10	1	-	1	1	208
25	5	(Z)	4	19	1	13	(Z)	-	(Z)	(Z)	209
49	10	2	4	35	8	7	5	-	4	(Z)	22
9	3	1	(Z)	5	2	1	(Z)	-	(Z)	(Z)	221
3	1	(Z)	1	2	1	(Z)	(Z)	-	(Z)	-	222
5	(Z)	(Z)	(Z)	4	-	1	(Z)	-	-	-	223
2	1	-	(Z)	1	(Z)	(Z)	(Z)	-	(Z)	-	225
18	2	(Z)	1	15	4	1	1	-	(Z)	(Z)	226
3	1	-	(Z)	1	1	1	1	-	-	-	227
3	1	(Z)	1	2	(Z)	1	(Z)	-	-	-	228
8	(Z)	-	(Z)	4	(Z)	3	3	-	3	-	229
69	2	(Z)	1	66	2	39	1	-	(Z)	1	24
61	1	(Z)	1	59	2	34	(Z)	-	(Z)	1	242
3	1	(Z)	1	2	(Z)	2	(Z)	-	(Z)	(Z)	243
5	(Z)	-	(Z)	4	-	4	(Z)	-	(Z)	-	249
1	1	-	(Z)	(Z)	(Z)	(Z)	(Z)	-	(Z)	-	25
1,409	36	4	15	1,338	45	947	5	-	5	29	26
162	1	-	1	158	1	102	(Z)	-	(Z)	3	261
788	23	2	10	747	32	576	1	-	1	17	262
426	10	2	4	402	9	247	4	-	4	10	263
16	(Z)	(Z)	(Z)	16	1	10	(Z)	-	(Z)	-	264
2	1	-	(Z)	2	-	1	(Z)	-	(Z)	-	265
15	1	(Z)	(Z)	14	1	12	(Z)	-	-	(Z)	266
2,028	65	7	48	1,925	15	1,517	29	-	21	8	28
1,492	44	4	36	1,427	11	1,100	16	-	9	5	281
382	9	1	5	361	3	288	9	-	7	2	282
28	5	1	3	20	(Z)	18	3	-	3	(Z)	283
11	1	(Z)	1	10	(Z)	10	(Z)	-	(Z)	-	284
3	2	(Z)	1	1	-	1	-	-	-	(Z)	285
11	(Z)	-	(Z)	9	1	7	1	-	(Z)	1	286
55	(Z)	(Z)	(Z)	54	(Z)	53	1	-	1	(Z)	287
47	4	1	3	43	(Z)	40	(Z)	-	(Z)	(Z)	289
1,249	28	2	22	1,175	245	267	4	-	2	41	29
1,244	27	2	21	1,171	245	263	4	-	2	41	291
5	1	-	1	4	-	4	(Z)	-	(Z)	-	295
40	8	(Z)	8	32	(Z)	29	(Z)	-	(Z)	(Z)	30
28	3	(Z)	3	25	-	23	(Z)	-	(Z)	(Z)	301
1	(Z)	(Z)	(Z)	1	-	1	(Z)	-	(Z)	-	302
6	3	-	3	3	-	2	(Z)	-	(Z)	(Z)	307
7	3	-	(Z)	4	1	1	(Z)	-	(Z)	-	31
7	3	-	(Z)	4	1	1	(Z)	-	(Z)	-	311
94	6	(Z)	4	76	7	51	12	-	11	(Z)	32
7	2	(Z)	2	5	1	1	(Z)	-	(Z)	(Z)	322
(Z)	(Z)	-	(Z)	(Z)	(Z)	(Z)	(Z)	-	-	-	325
1	(Z)	(Z)	(Z)	1	(Z)	(Z)	-	-	-	-	326
5	(Z)	(Z)	(Z)	4	(Z)	1	(Z)	-	(Z)	-	327
1	(Z)	-	(Z)	1	1	(Z)	-	-	-	-	328
24	1	(Z)	1	12	3	5	11	-	11	(Z)	329

TABLE 9. Water Intake by Purpose, Gross Water Used, and Water Treated and

(In billion gallons

Code	Industry group and industry	All employees (number)	Water intake by purpose					Gross water used, including recirculation or reuse
			Total	Process	Cooling and condensing		Boiler feed, sanitary service, and other uses	
					Steam electric power generation	Other		
33	Primary metal industries	501,967	3,582	746	1,022	1,677	137	5,284
331	Steel rolling and finishing	380,907	3,445	703	997	1,623	123	4,957
332	Iron and steel foundries	20,014	7	3	(Z)	3	1	10
333	Primary nonferrous metal	27,345	89	24	26	32	8	211
334	Secondary nonferrous metals	909	1	(Z)	-	(Z)	(Z)	2
335	Nonferrous rolling and drawing	57,364	36	16	(Z)	17	3	87
336	Nonferrous foundries	5,136	2	1	-	1	(Z)	10
339	Primary metal industries, n.e.c	10,292	2	(Z)	-	1	(Z)	6
34	Fabricated metal products	73,800	21	12	(Z)	7	3	51
343	Plumbing and heating, except electric	6,770	1	1	-	(Z)	(Z)	2
344	Structural metal products	16,422	9	5	(Z)	4	1	30
345	Screw machine products, bolts, etc	8,796	2	1	(Z)	(Z)	(Z)	2
346	Metal stampings	5,878	2	1	-	1	(Z)	3
347	Metal services, n.e.c	869	1	1	(Z)	(Z)	(Z)	1
348	Fabricated wire products, n.e.c	2,658	1	(Z)	(Z)	(Z)	(Z)	1
349	Fabricated metal products, n.e.c	9,329	1	(Z)	(Z)	1	(Z)	2
35	Machinery, except electrical	177,308	72	8	19	38	7	149
354	Metalworking machinery	9,671	1	(Z)	(Z)	1	(Z)	3
355	Special industry machinery	8,788	1	(Z)	(Z)	(Z)	(Z)	1
356	General industrial machinery	30,155	4	1	(Z)	2	1	19
358	Service industry machines	13,525	2	1	-	1	1	6
36	Electrical machinery	392,056	47	15	(Z)	19	11	147
361	Electric distribution products	29,383	3	1	-	1	1	7
362	Electric industrial apparatus	18,289	6	1	(Z)	3	3	11
363	Household appliances	35,584	12	4	(Z)	6	1	15
364	Lighting and wiring devices	18,055	3	1	-	1	(Z)	4
366	Communication equipment	149,569	6	2	-	2	2	36
367	Electronic components	75,160	9	3	(Z)	3	2	48
369	Electrical products, n.e.c	26,346	4	1	(Z)	2	1	18
37	Transportation equipment	646,969	127	28	3	31	64	426
371	Motor vehicles and equipment	277,313	81	16	1	10	55	286
372	Aircraft and parts	323,038	40	12	2	20	7	126
373	Ship and boat building	26,603	2	1	(Z)	(Z)	1	2
38	Instruments and related products	49,332	12	7	(Z)	1	3	48
386	Photographic equipment	4,700	2	(Z)	(Z)	(Z)	1	6
387	Watches, clocks, and watchcases	9,430	1	(Z)	-	(Z)	(Z)	2
39	Miscellaneous manufacturing	14,116	2	1	(Z)	1	1	10
394	Toys and sporting goods	3,149	1	(Z)	-	(Z)	(Z)	1

Note: Detail figures may not add to totals because of independent rounding. The figures shown for industry groups include data for all component industries.

- Represents zero.
(Z) Less than 500 million gallons.
[1]Figures for 1964 exclude and figures for 1959 include, establishments classified in Major Groups 23 and 27. In 1959, such establishments had total water intake of 23 billion gallons, gross water use of 58 billion gallons, discharge of 22 billion gallons of water, and 152 thousand employees. Data for Major Group 19 is included in all total figures but was considered too insignificant to publish.

Discharged by Point of Discharge for Establishments Treating Water: 1964--Con.

except employees)

Water discharged and treated											
Total	Point of discharge										Code
	Public utility sewer			Surface water body			Ground (wells, spray, etc.)			Discharge point not specified	
	Total	All treated	Part treated	Total	All treated	Part treated	Total	All treated	Part treated		
3,374	82	1	73	3,269	39	3,063	11	-	7	12	33
3,248	69	(Z)	65	3,166	35	3,019	9	-	6	4	331
6	2	(Z)	1	5	3	1	(Z)	-	(Z)	-	332
80	1	(Z)	(Z)	73	(Z)	28	1	-	(Z)	6	333
1	(Z)	-	(Z)	(Z)	-	(Z)	-	-	-	-	334
35	9	-	5	23	(Z)	14	1	-	(Z)	2	335
2	1	(Z)	1	1	(Z)	(Z)	(Z)	-	(Z)	-	336
2	1	-	1	1	(Z)	1	-	-	-	-	339
18	6	-	5	11	1	10	(Z)	-	(Z)	(Z)	34
1	1	-	1	(Z)	-	(Z)	-	-	-	-	343
7	1	-	1	6	(Z)	6	(Z)	-	(Z)	(Z)	344
1	1	-	1	1	(Z)	1	(Z)	-	(Z)	-	345
2	1	-	1	1	(Z)	1	(Z)	-	(Z)	-	346
1	(Z)	-	(Z)	(Z)	(Z)	(Z)	(Z)	-	(Z)	-	347
1	(Z)	-	(Z)	(Z)	(Z)	(Z)	(Z)	-	(Z)	-	348
1	1	-	1	(Z)	(Z)	(Z)	(Z)	-	(Z)	-	349
71	9	(Z)	7	61	5	55	1	-	(Z)	1	35
1	(Z)	-	(Z)	(Z)	(Z)	(Z)	1	-	(Z)	(Z)	354
1	(Z)	(Z)	(Z)	1	(Z)	(Z)	(Z)	-	(Z)	-	355
3	2	(Z)	2	1	-	1	(Z)	-	(Z)	(Z)	356
2	1	(Z)	1	1	(Z)	1	(Z)	-	(Z)	-	358
33	25	(Z)	22	13	4	7	2	-	1	-	36
2	1	-	1	1	(Z)	1	(Z)	-	(Z)	-	361
6	2	(Z)	1	4	3	1	-	-	-	-	362
5	3	(Z)	3	2	(Z)	1	(Z)	-	(Z)	-	363
3	2	-	2	1	-	1	-	-	-	-	364
5	4	-	3	1	(Z)	(Z)	1	-	(Z)	-	366
8	4	(Z)	4	3	1	2	(Z)	-	(Z)	-	367
3	2	(Z)	2	1	(Z)	(Z)	(Z)	-	(Z)	-	369
120	28	(Z)	25	87	2	78	4	-	3	(Z)	37
77	18	(Z)	16	59	2	54	(Z)	-	(Z)	(Z)	371
38	9	(Z)	8	25	(Z)	21	4	-	3	(Z)	372
2	(Z)	-	(Z)	1	-	1	(Z)	-	(Z)	(Z)	373
11	2	-	1	8	7	(Z)	(Z)	-	-	-	38
1	(Z)	-	(Z)	1	-	(Z)	(Z)	-	(Z)	-	386
1	(Z)	-	(Z)	(Z)	-	(Z)	-	-	-	-	387
2	1	(Z)	(Z)	1	(Z)	1	(Z)	-	(Z)	(Z)	39
1	(Z)	(Z)	(Z)	1	(Z)	(Z)	-	-	-	-	394

TABLE 10. Establishments by Water Intake Size: 1963

A. INDUSTRY GROUPS AND INDUSTRIES

(Data in this table are compiled from the check-box replies on the 1963 Census of Manufactures report form)

Code	Industry group and industry	Number of establishments reporting water intake of–					
		Total	Under 1 million gallons	1 to 9 million gallons	10 to 19 million gallons	20 to 99 million gallons	100 million gallons and over
	United States, total	130,294	96,181	18,904	4,629	5,996	4,584
20	Food and kindred products	21,555	11,304	5,739	1,501	2,021	990
201	Meat products	2,700	1,285	685	189	343	198
2011	Meat slaughtering plants	1,368	633	346	104	160	125
2013	Meat processing plants	714	426	186	30	54	18
2015	Poultry dressing plants	618	226	153	55	129	55
202	Dairies	4,602	1,929	1,488	456	572	157
2021	Creamery butter	432	154	130	60	70	18
2022	Natural and process cheese	555	298	152	52	43	10
2023	Condensed and evaporated milk	246	84	47	15	61	39
2024	Ice cream and frozen desserts	666	331	222	47	54	12
2026	Fluid milk	2,703	1,062	937	282	344	78
203	Canned and frozen foods	2,380	1,178	510	174	340	178
2031	Canned and cured seafoods	246	156	56	15	14	5
2032	Canned specialties	106	45	11	11	18	21
2033	Canned fruits and vegetables	908	342	206	88	193	79
2034	Dehydrated foods products	119	69	17	6	17	10
2035	Pickles, sauces, salad dressings	288	172	64	17	29	6
2036	Fresh or frozen packaged fish	295	206	59	12	14	4
2037	Frozen fruits and vegetables	418	188	97	25	55	53
204	Grain mills	2,160	1,687	314	64	60	35
2041	Flour mills	326	197	84	19	21	5
2042	Prepared animal feeds	1,617	1,368	191	27	21	10
2043	Cereal preparations	36	13	13	-	3	7
2044	Rice milling	58	40	9	4	4	1
2045	Blended and prepared flour	87	56	15	10	6	-
2046	Wet corn milling	36	13	2	4	5	12
205	Bakery products	2,614	1,687	652	124	129	22
2051	Bread and related products	2,369	1,527	605	113	107	17
2052	Biscuit, crackers, and cookies	245	160	47	11	22	5
206	Sugar	160	17	10	6	19	108
2061	Raw cane sugar	70	10	8	5	12	35
2062	Cane sugar refining	25	2	2	1	6	14
2063	Beet sugar	65	5	-	-	1	59
207	Candy and related products	625	395	143	29	46	12
2071	Confectionery products	577	377	132	24	35	9
2072	Chocolate and cocoa products	27	7	7	4	7	2
2073	Chewing gum	21	11	4	1	4	1
208	Beverages	3,401	1,517	1,233	239	277	135
2082	Malt liquors	197	24	31	15	51	76
2083	Malt	40	4	6	1	17	12
2084	Wines and brandy	130	62	30	11	16	11
2085	Distilled liquor, except brandy	97	34	15	7	25	16
2086	Bottled and canned soft drinks	2,676	1,211	1,102	192	155	16
2087	Flavorings	261	182	49	13	13	4
209	Miscellaneous foods and kindred products	2,913	1,609	704	220	235	145
2091	Cottonseed oil mills	165	65	62	21	11	6
2092	Soybean oil mills	85	16	16	5	18	30
2093	Vegetable oil mills, n.e.c.	33	14	7	3	4	5
2094	Animal and marine fats and oils	462	222	112	40	68	20
2095	Roasted coffee	241	195	26	4	8	8
2096	Shortening and cooking oils	99	26	12	10	27	24
2097	Manufactured ice	658	269	254	66	42	27
2098	Macaroni and spaghetti	121	83	27	9	2	-
2099	Food preparations, n.e.c.	1,049	719	188	62	55	25
21	Tobacco manufactures	265	144	80	21	13	7
2111	Cigarettes	14	1	-	3	4	6
2121	Cigars	90	49	32	7	2	-
2131	Chewing and smoking tobacco	34	17	12	3	2	-
2141	Tobacco stemming and redrying	127	77	36	8	5	1

See footnotes at end of table.

TABLE 10. Establishments by Water Intake Size: 1963 --Continued

A. INDUSTRY GROUPS AND INDUSTRIES—Continued

(Data in this table are compiled from the check-box replies on the 1963 Census of Manufactures report form)

Code	Industry group and industry	Number of establishments reporting water intake of–					
		Total	Under 1 million gallons	10 to 9 million gallons	1 to 9 million gallons	20 to 99 million gallons	100 million gallons and over
22	Textile mill products	5,160	3,159	980	304	431	286
2211	Weaving mills, cotton	364	79	86	51	92	56
2221	Weaving mills, synthetics	310	134	71	29	58	18
2231	Weaving, finishing mills, wool	277	116	61	18	36	46
2241	Narrow fabric mills	272	213	43	5	10	1
225	Knitting mills	1,949	1,453	314	82	77	23
2251	Women's hosiery, except socks	298	187	77	17	14	3
2252	Hosiery, n.e.c.	348	207	93	27	18	3
2253	Knit outerwear mills	791	690	71	13	12	5
2254	Knit underwear mills	106	61	24	13	6	2
2256	Knit fabric mills	352	265	39	12	26	10
2259	Knitting mills, n.e.c.	54	43	10	-	1	-
226	Textile finishing, except wool	445	202	79	25	48	91
2261	Finishing plants, cotton	162	66	27	9	13	47
2262	Finishing plants, synthetic	165	75	28	11	21	30
2269	Finishing plants, n.e.c.	118	61	24	5	14	14
227	Floor covering mills	218	137	34	10	20	17
2271	Woven carpets and rugs	39	19	6	3	5	6
2272	Tufted carpets and rugs	128	73	24	6	14	11
2279	Carpets and rugs, n.e.c.	51	45	4	1	1	-
228	Yarn and thread mills	598	317	174	51	40	16
2281	Yarn mills, except wool	292	118	116	33	20	5
2282	Throwing and winding mills	125	87	23	9	6	-
2283	Wool yarn mills	129	85	27	6	6	5
2284	Thread mills	52	27	8	3	8	6
229	Miscellaneous textile goods	727	508	118	33	50	18
2291	Felt goods, n.e.c.	34	9	12	4	6	3
2292	Lace goods	96	83	9	2	2	-
2293	Padding and upholstery filling	124	101	14	3	6	-
2294	Processed textile waste	105	84	15	3	1	2
2295	Coated fabric, not rubberized	124	80	25	3	8	8
2296	Tire cord and fabric	19	1	6	5	7	-
2297	Scouring and combing plants	49	24	5	5	10	5
2298	Cordage and twine	96	72	20	3	1	-
2299	Textile goods, n.e.c.	80	54	12	5	9	-
24	Lumber and wood products	10,584	9,333	845	175	152	79
2411	Logging camps and contractors	1,971	1,939	25	4	1	2
242	Sawmills and planing mills	4,076	3,462	412	79	73	50
2421	Sawmills and planing mills	3,435	2,925	325	68	67	50
2426	Hardwood dimension and flooring	405	308	80	11	6	-
2429	Special product sawmills, n.e.c.	236	229	7	-	-	-
243	Millwork and related products	2,393	2,066	223	40	48	16
2431	Millwork plants	1,565	1,492	62	5	5	1
2432	Veneer and plywood plants	533	297	145	34	42	15
2433	Prefabricated wood products	295	277	16	1	1	-
244	Wooden containers	570	492	56	13	6	3
2441	Nailed wooden boxes and shook	362	341	15	3	2	1
2442	Wirebound boxes and crates	77	53	17	4	2	1
2443	Veneer and plywood containers	60	40	16	1	2	1
2445	Cooperage	71	58	8	5	-	-
249	Miscellaneous wood products	1,574	1,374	129	39	24	8
2491	Wood preserving	223	123	63	25	12	-
2499	Wood products, n.e.c.	1,351	1,251	66	14	12	8
25	Furniture and fixtures	5,251	4,606	463	100	55	27
251	Household furniture	3,255	2,811	324	71	31	18
2511	Wood furniture not upholstered	1,392	1,143	184	39	16	10
2512	Wood furniture, upholstered	985	902	63	11	5	4
2514	Metal household furniture	335	262	46	17	7	3
2515	Mattresses and bedsprings	492	460	27	2	3	-
2519	Household furniture, n.e.c.	51	44	4	2	-	1

See footnotes at end of table.

TABLE 10. Establishments by Water Intake Size: 1963--Continued

A. INDUSTRY GROUPS AND INDUSTRIES—Continued

(Data in this table are compiled from the check-box replies on the 1963 Census of Manufactures report form)

Code	Industry group and industry	Number of establishments reporting water intake of—					
		Total	Under 1 million gallons	1 to 9 million gallons	10 to 19 million gallons	20 to 99 million gallons	100 million gallons and over
25	Furniture and fixtures—Continued						
252	Office furniture	225	159	42	12	11	1
2521	Wood office furniture	91	75	11	3	2	-
2522	Metal office furniture	134	84	31	9	9	1
2531	Public building furniture	227	186	32	3	4	2
254	Partitions and fixtures	1,115	1,050	48	8	5	4
2541	Wood partitions and fixtures	799	776	22	1	-	-
2542	Metal partitions and fixtures	316	274	26	7	5	4
259	Furniture and fixtures, n.e.c	429	400	17	6	4	2
2591	Venetian blinds and shades	229	212	9	3	3	2
2599	Furniture and fixtures, n.e.c	200	188	8	3	1	-
26	Paper and allied products	4,393	2,821	709	179	182	502
2611	Pulp mills	44	5	2	1	5	31
2621	Paper mills, except building	316	21	21	6	32	236
2631	Paperboard mills	268	42	27	14	29	156
264	Paper and paperboard products	1,688	1,283	246	59	64	36
2641	Paper coating and glazing	274	169	48	19	27	11
2642	Envelopes	195	155	33	3	3	1
2643	Bags, except textile bags	397	295	72	16	10	4
2644	Wallpaper	52	43	8	1	-	-
2645	Die cut paper and board	283	249	21	5	3	5
2646	Pressed and molded pulp goods	51	19	12	4	8	8
2647	Sanitary paper products	95	68	13	5	5	4
2649	Converted paper products, n.e.c	341	285	39	6	8	3
265	Paperboard containers and boxes	1,995	1,457	396	94	35	13
2651	Folding paperboard boxes	494	397	69	20	6	2
2652	Set-up paperboard boxes	364	339	22	2	-	1
2653	Corrugated shipping containers	782	487	226	53	12	4
2654	Sanitary food containers	162	77	54	12	15	4
2655	Fiber cans, tubes, drums, etc	193	157	25	7	2	2
2661	Building paper and board mills	82	13	17	5	17	30
28	Chemicals and allied products	7,511	5,007	1,082	293	435	694
281	Basic chemicals	1,618	682	282	107	160	387
2812	Alkalies and chlorine	38	4	2	1	2	29
2813	Industrial gases	421	197	106	36	33	49
2814	Cyclic (coal tar) crudes	34	21	7	2	2	2
2815	Intermediate coal tar products	131	50	18	5	25	35
2816	Inorganic pigments	76	32	13	4	7	20
2818	Organic chemicals, n.e.c	394	189	38	20	33	114
2819	Inorganic chemicals, n.e.c	524	189	98	39	60	138
282	Fibers, plastics, rubbers	452	185	59	31	59	118
2821	Plastics materials and resins	385	182	56	30	50	67
2822	Synthetic rubber	24	2	-	-	7	15
2823	Cellulosic man-made fibers	19	-	-	1	-	18
2824	Organic fibers, noncellulosic	24	1	3	-	2	18
283	Drugs	624	428	99	22	44	31
2831	Biological products	70	50	12	3	2	3
2833	Medicinals and botanicals	85	51	19	5	4	6
2834	Pharmaceutical preparations	469	327	68	14	38	22
284	Cleaning and toilet goods	1,181	881	195	41	39	25
2841	Soap and other detergents	345	234	64	16	15	16
2842	Polishes and sanitation goods	440	379	46	7	5	3
2843	Surface active agents	117	67	32	9	6	3
2844	Toilet preparations	279	201	53	9	13	3
2851	Paints and allied products	1,224	981	162	28	38	15
2861	Gum and wood chemicals	115	76	16	4	3	16
287	Agricultural chemicals	1,026	807	113	28	41	37
2871	Fertilizers	241	104	50	24	32	31
2872	Fertilizers, mixing only	532	485	40	2	2	3
2879	Agricultural chemicals, n.e.c	253	218	23	2	7	3

See footnotes at end of table.

TABLE 10. Establishments by Water Intake: 1963--Continued

A. INDUSTRY GROUPS AND INDUSTRIES—Continued

(Data in this table are compiled from the check-box replies on the 1963 Census of Manufactures form)

Code	Industry group and industry	Number of establishments reporting water intake of–					
		Total	Under 1 million gallons	1 to 9 million gallons	10 to 19 million gallons	20 to 99 million gallons	100 million gallons and over
28	Chemicals and allied products—Con..						
289	Miscellaneous chemical products.....	1,271	967	156	32	51	65
2891	Glue and gelatin.....	249	186	40	5	7	11
2892	Explosives.....	58	28	4	5	4	17
2893	Printing ink.....	272	201	51	10	9	1
2895	Carbon black.....	33	4	5	4	6	14
2899	Chemical preparations, n.e.c.....	659	548	56	8	25	22
29	Petroleum and coal products.....	1,370	774	261	60	92	183
2911	Petroleum refining.....	354	81	42	25	40	166
295	Paving and roofing materials.....	773	505	188	28	37	15
2951	Paving mixtures and blocks.....	586	437	125	15	7	2
2952	Asphalt felts and coatings.....	187	68	63	13	30	13
299	Petroleum and coal products, n.e.c.....	243	188	31	7	15	2
2992	Lubricating oils and greases.....	206	166	26	4	9	1
2999	Petroleum and coal products, n.e.c....	37	22	5	3	6	1
30	Rubber and plastics products, n.e.c.	3,312	2,273	580	142	194	123
3011	Tires and inner tubes.....	120	49	10	8	19	34
3021	Rubber footwear.....	49	25	15	1	6	2
3031	Reclaimed rubber.....	13	2	3	1	4	3
3069	Rubber products, n.e.c.....	780	460	150	59	69	42
3079	Plastics products, n.e.c.....	2,350	1,737	402	73	96	42
31	Leather and leather products.....	2,646	2,049	382	99	71	45
3111	Leather tanning and finishing.....	360	183	67	22	52	36
3121	Industrial leather belting.....	52	41	10	1	-	-
3131	Footwear cut stocks.....	278	247	30	-	1	-
314	Footwear, except rubber.....	941	658	203	64	15	1
3141	Shoes, except rubber.....	839	575	187	61	15	1
3142	House slippers.....	102	83	16	3	-	-
3151	Leather gloves.....	105	84	16	3	1	1
3161	Luggage.....	212	188	15	4	-	5
317	Purses and small leather goods.....	540	496	37	4	2	1
3171	Handbags and purses.....	356	327	25	3	-	1
3172	Small leather goods.....	184	169	12	1	2	-
3199	Leather goods, n.e.c.....	158	152	4	1	-	1
32	Stone, clay, and glass products.....	8,415	5,583	1,885	280	390	277
3211	Flat glass.....	31	7	1	3	8	12
322	Pressed and blown glassware.....	213	45	43	16	75	34
3221	Glass containers.....	111	11	20	10	54	16
3229	Pressed and blown glass, n.e.c.....	102	34	23	6	21	18
3231	Products of purchased glass.....	426	351	39	17	10	9
3241	Cement, hydraulic.....	187	22	15	10	40	100
325	Structural clay products.....	731	390	264	57	16	4
3251	Brick and structural tile.....	407	223	155	23	6	-
3253	Ceramic wall and floor tile.....	70	36	21	7	4	2
3255	Clay refractories.....	127	68	45	11	1	2
3259	Structural clay products, n.e.c.....	127	63	43	16	5	-
326	Pottery and related products.....	313	207	59	16	27	4
3261	Vitreous plumbing fixtures.....	43	10	11	9	13	-
3262	Vitreous china food utensils.....	24	12	7	2	3	-
3263	Fine earthenware food utensils.....	21	10	6	2	2	1
3264	Porcelain electrical supplies.....	59	31	15	3	7	3
3269	Pottery products, n.e.c.....	166	144	20	-	2	-

See footnotes at end of table.

TABLE 10. Establishments by Water Intake Size: 1963--Continued

A. INDUSTRY GROUPS AND INDUSTRIES

(Data in this table are compiled from the check-box replies on the 1963 Census of Manufactures report form)

Code	Industry group and industry	Number of establishments reporting water intake of–					
		Total	Under 1 million gallons	1 to 9 million gallons	10 to 19 million gallons	20 to 99 million gallons	100 million gallons and over
32	Stone, clay, and glass products--Continued						
327	Concrete and plaster products	5,006	3,496	1,229	102	128	51
3271	Concrete block and brick	880	708	155	9	7	1
3272	Other concrete products	1,482	1,190	254	12	22	4
3273	Ready mixed concrete	2,456	1,522	795	61	48	30
3274	Lime	103	56	17	5	17	8
3275	Gypsum products	85	20	8	15	34	8
3281	Cut stone and stone products	409	296	75	10	20	8
329	Nonmetallic mineral products	1,099	769	160	49	66	55
3291	Abrasive products	236	174	36	7	10	9
3292	Asbestos products	104	41	15	9	21	18
3293	Gaskets and insulations	171	140	17	2	4	8
3295	Minerals, ground or treated	284	219	42	7	10	6
3296	Mineral wool	90	43	14	10	15	8
3297	Nonclay refractories	90	39	31	11	5	4
3299	Nonmetallic minerals, n.e.c	124	113	5	3	1	2
33	Primary metal industries	5,000	2,955	908	253	428	456
331	Steel rolling and finishing	681	216	122	48	103	192
3312	Blast furnaces and steel mills	278	49	27	13	40	149
3313	Electrometallurgical products	33	4	8	4	6	11
3315	Steel wire drawing, etc	167	87	33	14	25	8
3316	Cold finishing of steel shapes	77	23	18	8	16	12
3317	Steel pipe and tube	126	53	36	9	16	12
332	Iron and steel foundries	1,223	715	285	68	102	53
3321	Gray iron foundries	905	591	197	41	42	34
3322	Malleable iron foundries	76	23	28	8	12	5
3323	Steel foundries	242	101	60	19	48	14
333	Primary nonferrous metal	117	17	13	6	19	62
3331	Primary copper	33	4	2	1	6	20
3332	Primary lead	10	-	2	-	1	7
3333	Primary zinc	18	2	1	1	3	11
3334	Primary aluminum	23	2	-	-	2	19
3339	Primary nonferrous metals, n.e.c	33	9	8	4	7	5
3341	Secondary nonferrous metals	294	188	66	17	20	3
335	Nonferrous rolling and drawing	643	282	123	43	91	104
3351	Copper rolling and drawing	107	30	15	11	21	30
3352	Aluminum rolling and drawing	181	87	36	6	20	32
3356	Rolling and drawing, n.e.c	99	59	13	5	12	10
3357	Nonferrous wire drawing, etc	256	106	59	21	38	32
336	Nonferrous foundries	1,252	1,021	155	24	41	11
3361	Aluminum castings	589	486	65	11	21	6
3362	Brass, bronze, copper castings	393	335	42	5	10	1
3369	Nonferrous castings, n.e.c	270	200	48	8	10	4
339	Primary metal industries, n.e.c	790	516	144	47	52	31
3391	Iron and steel forgings	226	110	50	20	27	19
3392	Nonferrous forgings	29	16	6	-	2	5
3399	Primary metal industries, n.e.c	535	390	88	27	23	7
34	Fabricated metal products	16,658	13,876	1,745	404	484	149
3411	Metal cans	247	118	71	20	34	4
342	Cutlery, hand tools, hardware	1,256	978	154	40	54	30
3421	Cutlery	109	83	15	2	5	4
3423	Hand and edge tools	412	339	45	11	15	2
3425	Hand saws and saw blades	61	46	8	2	4	1
3429	Hardware, n.e.c	674	510	86	25	30	23
343	Plumbing and heating, except electric	614	442	102	28	31	11
3431	Metal plumbing fixtures	58	33	8	6	7	4
3432	Plumbing fittings, brass goods	153	104	25	10	11	3
3433	Heating equipment, except electric	403	305	69	12	13	4

See footnotes at end of table.

TABLE 10. Establishments by Water Intake Size: 1963--Continued

A. INDUSTRY GROUPS AND INDUSTRIES

(Data in this table are compiled from the check-box replies on the 1963 Census of Manufactures report form)

Code	Industry group and industry	Number of establishments reporting water intake of-					
		Total	Under 1 million gallons	1 to 9 million gallons	10 to 19 million gallons	20 to 99 million gallons	100 million gallons and over
34	Fabricated metal products—Con.						
344	Structural metal products	6,037	5,440	419	79	75	24
3441	Fabricated structural steel	1,334	1,203	94	22	10	5
3442	Metal doors, sash, and trim	1,143	1,029	75	18	16	5
3443	Boiler shop products	931	761	119	17	26	8
3444	Sheet metal work	1,844	1,738	79	11	11	5
3446	Architectural metal work	419	398	16	4	1	-
3449	Miscellaneous metal work, n.e.c	366	311	36	7	11	1
345	Screw machine products, bolts, etc	1,624	1,426	122	27	36	13
3451	Screw machine products	1,151	1,089	53	4	4	1
3452	Bolts, nuts, rivets, and washers	473	337	69	23	32	12
3461	Metal stampings	1,897	1,582	193	43	56	23
347	Metal services, n.e.c	2,285	1,682	371	104	106	22
3471	Plating and polishing	1,646	1,124	309	95	97	21
3479	Metal coating, engraving, etc	639	558	62	9	9	1
3481	Fabricated wire products, n.e.c	944	807	89	19	25	4
349	Fabricated metal products, n.e.c	1,754	1,401	224	44	67	18
3491	Metal barrels, drums, and pails	119	77	24	7	8	3
3492	Safes and vaults	21	17	2	-	1	1
3493	Steel springs	76	63	6	2	2	3
3494	Valves and pipe fittings	510	346	105	18	32	9
3496	Collapsible tubes	20	12	2	1	4	1
3497	Metal foil and leaf	60	44	8	3	4	1
3498	Fabricated pipe and fittings	238	201	27	3	7	-
3499	Fabricated metal products, n.e.c	710	641	50	10	9	-
35	Machinery, except electrical	18,197	16,181	1,225	281	338	172
351	Engines and turbines	129	67	11	10	22	19
3511	Steam engines and turbines	22	7	1	3	5	6
3519	Internal combustion engines	107	60	10	7	17	13
3522	Farm machinery and equipment	889	739	80	27	19	24
353	Construction and like equipment	1,535	1,249	169	47	53	17
3531	Construction machinery	426	317	60	14	22	13
3532	Mining machinery and equipment	144	113	21	2	6	2
3533	Oil field machinery	283	220	31	21	9	2
3534	Elevators and moving stairways	109	94	9	2	4	-
3535	Conveyors	295	261	26	4	4	-
3536	Hoists, cranes, and monorails	89	77	5	4	3	-
3537	Industrial trucks and tractors	189	167	17	-	5	-
354	Metalworking machinery	5,078	4,692	249	51	65	21
3541	Metal-cutting machine tools	497	417	46	11	18	5
3542	Metal-forming machine tools	247	205	28	5	9	-
3544	Special dies and tools	3,389	3,270	86	15	12	6
3545	Machine tool accessories	675	588	55	15	14	3
3548	Metalworking machinery, n.e.c	270	212	34	5	12	7
355	Special industry machinery	2,126	1,844	185	40	44	13
3551	Food products machinery	443	384	39	9	9	2
3552	Textile machinery	361	301	38	8	10	4
3553	Woodworking machinery	168	146	17	2	3	-
3554	Paper industries machinery	156	133	12	6	5	-
3555	Printing trades machinery	293	261	20	7	5	-
3559	Special industry machinery, n.e.c	705	619	59	8	12	7
356	General industrial machinery	2,328	1,943	234	45	72	34
3561	Pumps and compressors	414	317	61	8	18	10
3562	Ball and roller bearings	114	48	25	10	18	13
3564	Blowers and fans	157	122	21	6	8	-
3565	Industrial patterns	599	587	9	1	2	-
3566	Power transmission equipment	396	313	49	12	15	7
3567	Industrial furnaces and ovens	161	136	21	1	2	1
3569	General industry machines, n.e.c	487	420	48	7	9	3

See footnotes at end of table.

TABLE 10. Establishments by Water Intake Size: 1963—Continued

A. INDUSTRY GROUPS AND INDUSTRIES

(Data in this table are compiled from the check-box replies on the 1963 Census of Manufactures report form)

Code	Industry group and industry	Number of establishments reporting water intake of—					
		Total	Under 1 million gallons	1 to 9 million gallons	10 to 19 million gallons	20 to 99 million gallons	100 million gallons and over
35	Machinery, except electrical—Con.						
357	Office machines, n.e.c.	354	260	47	15	16	16
3571	Computing and related machines	181	128	27	8	8	10
3572	Typewriters	19	7	3	1	4	4
3576	Scales and balances	52	40	8	2	2	-
3579	Office machines, n.e.c.	102	85	9	4	2	2
358	Service industry machines	939	728	129	30	35	17
3581	Automatic vending machines	98	73	16	3	4	2
3582	Commercial laundry equipment	75	57	12	1	4	1
3585	Refrigeration machinery	474	352	68	20	21	13
3586	Measuring and dispensing pumps	35	22	7	2	3	1
3589	Service industry machines, n.e.c.	257	224	26	4	3	-
3599	Miscellaneous machinery	4,819	4,659	121	16	12	11
36	Electrical machinery	6,444	4,766	861	255	345	217
361	Electric distribution products	718	550	94	27	33	14
3611	Electric measuring instruments	292	244	32	7	7	2
3612	Transformers	121	82	19	3	13	4
3613	Switchgear and switchboards	305	224	43	17	13	8
362	Electric industrial apparatus	843	627	101	35	48	32
3621	Motors and generators	289	173	52	17	29	18
3622	Industrial controls	245	215	17	3	7	3
3623	Electric welding apparatus	106	78	13	8	5	2
3624	Carbon and graphite products	49	28	7	1	5	8
3629	Electric industrial goods, n.e.c.	154	133	12	6	2	1
363	Household appliances	436	261	75	24	42	34
3631	Household cooking equipment	57	30	11	4	9	3
3632	Household refrigerators	27	7	5	2	2	11
3633	Household laundry equipment	33	12	7	2	6	6
3634	Electric housewares and fans	171	108	30	10	16	7
3635	Household vacuum cleaners	19	11	3	2	-	3
3636	Sewing machines	40	35	3	-	1	1
3639	Household appliances, n.e.c.	89	58	16	4	8	3
364	Lighting and wiring devices	1,199	970	137	32	40	20
3641	Electric lamps	59	23	23	3	8	2
3642	Lighting fixtures	752	663	61	13	8	7
3643	Current carrying devices	243	192	26	10	11	4
3644	Noncurrent carrying devices	145	92	27	6	13	7
365	Radio and TV receiving equipment	332	242	38	23	19	10
3651	Radio and TV receiving sets	243	179	26	20	11	7
3652	Phonograph records	89	63	12	3	8	3
366	Communication equipment	931	682	116	34	49	50
3661	Telephone; telegraph apparatus	66	35	11	2	5	13
3662	Radio, TV communication equipment	865	647	105	32	44	37
367	Electronic components	1,440	1,054	213	54	79	40
3671	Electron tubes, receiving type	28	11	4	1	8	4
3672	Cathode ray picture tubes	64	50	6	3	1	4
3673	Electron tubes, transmitting	49	25	9	3	7	5
3674	Semiconductors	95	44	19	6	17	9
3679	Electronic components, n.e.c.	1,204	924	175	41	46	18
369	Electrical products, n.e.c.	545	380	87	26	35	17
3691	Storage batteries	171	92	43	13	17	6
3692	Primary batteries, dry and wet	32	8	14	3	5	2
3693	X-ray apparatus and tubes	47	39	6	1	1	-
3694	Engine electrical equipment	140	107	13	5	7	8
3699	Electrical products, n.e.c.	155	134	11	4	5	1
37	Transportation equipment	4,195	3,177	456	115	187	260
371	Motor vehicles and equipment	1,730	1,251	180	54	94	151
3713	Truck and bus bodies	376	335	24	11	5	1
3715	Truck trailers	127	101	19	5	2	-
3717	Motor vehicles and parts	1,227	815	137	38	87	150

See footnotes at end of table.

TABLE 10. Establishments by Water Intake Size: 1963—Continued

A. INDUSTRY GROUPS AND INDUSTRIES

(Data in this table are compiled from the check-box replies on the 1963 Census of Manufactures report form)

Code	Industry group and industry	Number of establishments reporting water intake of–					
		Total	Under 1 million gallons	1 to 9 million gallons	10 to 19 million gallons	20 to 99 million gallons	100 million gallons and over
37	Transportation equipment—Continued						
372	Aircraft and parts	1,010	722	120	41	55	72
3721	Aircraft	75	32	9	3	8	23
3722	Aircraft engines and parts	216	132	29	13	16	26
3723	Aircraft propellers and parts	12	7	2	1	2	-
3729	Aircraft equipment, n.e.c	707	551	80	24	29	23
373	Ship and boat building	874	724	100	11	20	19
3731	Ship building and repairing	281	178	55	10	19	19
3732	Boat building and repairing	593	546	45	1	1	-
374	Railroad equipment	86	40	18	5	12	11
3741	Locomotives and parts	19	11	2	1	1	4
3742	Railroad and street cars	67	29	16	4	11	7
3751	Motorcycles, bicycles, and parts	47	32	6	1	5	3
379	Transportation equipment, n.e.c	448	408	32	3	1	4
3791	Trailer coaches	265	233	25	2	1	4
3799	Transportation equipment, n.e.c	183	175	7	1	-	-
38	Instruments and related products	2,271	1,889	208	58	74	42
3811	Scientific instruments	367	323	28	6	6	4
382	Mechanical measuring devices	462	358	54	15	23	12
3821	Mechanical measuring devices	385	308	44	11	16	6
3822	Automatic temperature controls	77	50	10	4	7	6
3831	Optical instruments and lenses	148	128	15	1	3	1
384	Medical instruments and supplies	702	617	52	14	12	7
3841	Surgical and medical instruments	193	168	18	2	3	2
3842	Surgical appliances and supplies	372	326	24	10	7	5
3843	Dental equipment and supplies	137	123	10	2	2	-
3851	Ophthalmic goods	146	121	13	5	5	2
3861	Photographic equipment	315	240	36	10	17	12
387	Watches, clocks, and watchcases	131	102	10	7	8	4
3871	Watches and clocks	97	71	8	6	8	4
3872	Watchcases	34	31	2	1	-	-
39	Miscellaneous manufacturing	6,865	6,187	462	99	80	37
391	Jewelry and silverware	963	898	38	8	13	6
3911	Jewelry, precious metal	666	636	18	5	6	1
3912	Jewelers' findings and materials	108	99	7	1	1	-
3913	Lapidary work	67	66	-	-	1	-
3914	Silverware and plated ware	122	97	13	2	5	5
3931	Musical instruments and parts	177	140	21	11	4	1
394	Toys and sporting goods	1,256	1,064	131	28	24	9
3941	Games and toys	458	371	59	11	11	6
3942	Dolls	199	187	9	3	-	-
3943	Children's vehicles	40	25	8	3	4	-
3949	Sporting and athletic goods	559	481	55	11	9	3
395	Pens, pencils, and office supplies	549	493	33	12	9	2
3951	Pens and mechanical pencils	90	74	8	5	2	1
3952	Lead pencils and art goods	89	71	10	4	3	1
3953	Marking devices	290	286	3	1	-	-
3955	Carbon paper and inked ribbons	80	62	12	2	4	-
396	Costume jewelry and notions	898	794	73	13	13	5
3961	Costume jewelry	386	346	29	3	8	-
3962	Artificial flowers	160	153	6	1	-	-
3963	Buttons	148	131	14	3	-	-
3964	Needles, pins, and fasteners	204	164	24	6	5	5

See footnotes at end of table.

TABLE 10. Establishments by Water Intake Size: 1963—Continued

A. INDUSTRY GROUPS AND INDUSTRIES

(Data in this table are compiled from the check-box replies on the 1963 Census of Manufactures report form)

Code	Industry group and industry	Number of establishments reporting water intake of–					
		Total	Under 1 million gallons	1 to 9 million gallons	10 to 19 million gallons	20 to 99 million gallons	100 million gallons and over
39	Miscellaneous manufacturing—Con.						
398 399	Miscellaneous manufactures	3,021	2,797	166	27	17	14
3981	Brooms and brushes	299	269	23	3	3	1
3982	Hard surface floor coverings	15	6	4	1	-	4
3983	Matches	23	9	8	3	2	1
3984	Candles	53	45	5	3	-	-
3987	Lamp shades	90	85	4	1	-	-
3988	Morticians' goods	408	380	21	4	1	2
3992	Furs, dressed and dyed	88	81	7	-	-	-
3993	Signs and advertising displays	1,382	1,317	57	2	3	3
3995	Umbrellas, parasols, and canes	67	64	3	-	-	-
3999	Miscellaneous products, n.e.c	596	541	34	10	8	3
19	Ordnance and accessories	202	97	33	10	24	38
1911	Guns, howitzers, and mortars	3	3	-	-	-	-
192	Missiles and ammunition, n.e.c	73	25	6	5	13	24
1925	Complete guided missiles	33	11	2	3	5	12
1929	Ammunition, n.e.c	40	14	4	2	8	12
1931	Tanks and tank components	19	11	5	1	1	1
1941	Sighting and fire control equipment	12	5	4	-	2	1
1951	Small arms, 30 mm and under	33	21	5	2	2	3
1961	Small arms ammunition	15	6	4	-	2	3
1999	Ordnance and accessories, n.e.c	47	26	9	2	4	6

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies.
(NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.

TABLE 10. Establishments by Water Intake Size: 1963

B. DIVISIONS AND STATES

(Data in this table are compiled from the check-box replies on the 1963 Census of Manufactures report form)

Divisions and States	Number of establishments reporting water intake of–					
	Total	Under 1 million gallons	1 to 9 million gallons	10 to 19 million gallons	20 to 99 million gallons	100 million gallons and over
United States, total	130,294	96,181	18,904	4,629	5,996	4,584
New England:						
Maine	834	626	104	30	29	45
New Hampshire	694	500	98	36	25	35
Vermont	401	271	91	8	21	10
Massachusetts	5,441	4,265	659	156	200	161
Rhode Island	1,314	1,029	175	33	52	25
Connecticut	2,876	2,188	351	89	147	101
Middle Atlantic:						
New York	14,663	12,330	1,367	295	355	319
New Jersey	6,575	5,062	829	197	277	210
Pennsylvania	8,586	5,921	1,528	357	479	301
East North Central:						
Ohio	8,182	5,709	1,303	362	465	343
Indiana	3,389	2,287	576	156	211	159
Illinois	9,081	6,753	1,270	325	452	279
Michigan	6,956	5,346	841	235	286	248
Wisconsin	3,694	2,531	587	144	275	157
West North Central:						
Minnesota	2,308	1,659	366	82	121	80
Iowa	1,482	1,020	232	78	86	66
Missouri	2,760	1,993	436	107	138	86
North Dakota	152	87	44	8	11	2
South Dakota	195	124	47	6	13	5
Nebraska	696	465	126	31	47	27
Kansas	1,022	710	181	37	36	58
South Atlantic:						
Delaware	286	166	51	13	35	21
Maryland	1,509	1,034	242	66	97	70
District of Columbia	115	93	11	5	5	1
Virginia	1,813	1,212	338	89	100	74
West Virginia	703	431	148	25	47	52
North Carolina	3,322	2,118	719	192	182	111
South Carolina	1,141	657	221	74	110	79
Georgia	2,329	1,533	417	134	139	106
Florida	2,659	2,051	388	68	77	75
East South Central:						
Kentucky	1,236	765	257	70	79	65
Tennessee	2,019	1,285	400	110	114	110
Alabama	1,537	987	300	75	92	83
Mississippi	963	633	192	48	45	45
West South Central:						
Arkansas	1,086	720	219	36	69	42
Louisiana	1,281	805	246	48	86	96
Oklahoma	968	666	198	34	40	30
Texas	4,670	3,190	871	204	219	186
Mountain:						
Montana	351	248	62	7	13	21
Idaho	432	295	66	13	27	31
Wyoming	110	73	17	3	8	9
Colorado	938	652	166	38	44	38
New Mexico	275	198	53	10	6	8
Arizona	533	412	73	17	13	18
Utah	446	302	78	23	22	21
Nevada	77	55	10	2	4	6
Pacific:						
Washington	2,047	1,563	237	57	95	95
Oregon	1,955	1,500	241	55	91	68
California	13,899	11,467	1,414	324	399	294
Alaska	119	76	24	12	5	2
Hawaii	174	118	34	5	7	10

TABLE 10. Establishments by Water Intake Size: 1963

C. WATER USE REGIONS

(Data in this table are compiled from the check-box replies on the 1963 Census of Manufactures report form)

Water use region	Number of establishments reporting water intake of–					
	Total	Under 1 million gallons	1 to 9 million gallons	10 to 19 million gallons	20 to 99 million gallons	100 million gallons and over
United States, total	130,294	96,181	18,904	4,629	5,996	4,584
New England	11,329	8,721	1,426	348	462	372
Delaware and Hudson	22,792	18,709	2,385	529	678	495
Chesapeake Bay	5,381	3,604	1,005	254	322	196
Eastern Great Lakes-St. Lawrence	11,260	8,366	1,540	404	526	424
Ohio River	10,509	6,868	1,920	502	693	526
Tennessee	1,496	891	312	95	91	107
Southeast	11,679	7,820	2,170	571	635	483
Western Great Lakes	13,278	9,794	1,842	470	709	464
Upper Mississippi	8,037	5,556	1,344	338	462	333
Lower Mississippi	1,825	1,155	355	73	112	130
Missouri	3,753	2,566	693	155	201	138
Arkansas White and Red	3,664	2,484	710	130	182	158
Western Gulf	4,660	3,194	857	206	216	185
Colorado Basin	675	512	97	22	19	25
Great Basin	508	344	86	26	26	26
California	13,947	11,508	1,424	326	402	288
Pacific Northwest	4,554	3,458	554	127	215	200
Cumberland	587	404	111	34	27	11
Alaska	119	76	24	12	5	2
Hawaii	241	151	49	7	13	21

Concentration Ratios

Chapter 11

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CONCENTRATION RATIOS

GENERAL

The tables in this chapter are taken from a special report prepared by the Census Bureau at the request of the Senate Subcommittee on Antitrust and Monopoly of the Committee on the Judiciary. The report was issued as a Senate Committee print (89th Congress, 2nd Session) entitled Concentration Ratios in Manufacturing Industry 1963. It has also been issued by the Census Bureau as a special report from the 1963 Census of Manufactures.

The complete report provides the following information:

Tables 1A to 1D—share of total value added by manufacture accounted for by the 50, 100, 150, and 200 largest manufacturing companies (reproduced in this chapter).

Table 2—percent value of shipments accounted for by the 4, 8, 20, and 50 largest companies in each manufacturing industry for 1963 compared with 1958, 1947, 1954, and 1935 (reproduced in this chapter).

Table 3—percent of total manufacturing (employment, payrolls, value added, capital expenditures, etc.) accounted for by the 4, 8, 20, and 50 largest companies ranked by value of shipments in each industry in 1963 (not reproduced in this chapter).

Table 4—percent of value of shipments of each class of products accounted for by the largest companies, 1963 compared with 1958 and 1954 (not reproduced in this chapter).

A second part of the 1963 report on concentration is planned by the Subcommittee and will provide frequency distributions of concentration ratios by industry and concentration level; measures of concentration at the State level for some industries; information on the diversification and integration of the largest companies.

Through years of usage the term "concentration ratio" has come to mean the share of the total activity or resources of a given segment of the economy accounted for by its largest companies. In order to avoid disclosure of the operations of any individual firms, concentration ratios based on census data are presented in groups of four or more companies, that is, the four largest, the eight largest, and so forth.

The concentration ratios based on census data have consistently been prepared on what is known as an unconsolidated basis, and, indeed, represent the only source of concentration figures prepared in this manner. Virtually all other tabulations have been prepared on a consolidated basis. The difference is that on the unconsolidated basis the total shipments of a given company are not assigned to just one industry. Instead, they are distributed among the various industries in which they are actually made. This can be done from the census material since the reports are received from individual establishments, which are classified by industry and grouped by the owning company within industry. In tabulations made on a consolidated basis, all of a given company's activities or resources are in effect consolidated in one industry—the industry in which the concern is principally engaged. Since most large companies are engaged in more than one industry, the consolidation of all of their shipments in one industry may yield a

decidedly different concentration figure from that based on the unconsolidated method. (See Introduction to this census volume, sections 5 and 6 on Standard Industrial Classification and the establishment basis of reporting.)

Under the establishment-industry approach, each plant is assigned to one or the other of the approximately 430 4-digit industries. This is done primarily to secure needed information on payrolls, man-hours, cost of materials, value added by manufacture, and other matters which relate to the operations of the entire plant. As part of this process, the entire shipments of the plant are also assigned to a particular industry. This will include not only its output of products classified in the industry (primary products) but of products classified in other industries as well (secondary products) and miscellaneous receipts and resales. Thus, on the industry basis, the concentration ratios are derived by calculating the total shipments of plants belonging to the largest companies as a percent of the shipments of all plants in the industry. The establishment-industry approach is used in the preparation of table 2.

TABLES 1A THROUGH 1D

These tables show the share of total manufacturing activity in the United States accounted for by the largest manufacturing companies. At the "all manufacturing" level concentration is measured in terms of value added by manufacture.

Information on value added by manufacture for all establishments' operated in manufacturing by a given company was aggregated irrespective of the industry classification of the individual establishments. The companies were then arrayed by their value added in each census year and figures for the 50, 100, 150, and 200 largest companies in each year aggregated. These tables exclude the companies' establishments classified outside of manufacturing.

(1) In table 1A, the companies in each category are not identical for all five years, since the size array was developed independently for each year.

(2) In table 1B, which is an innovation in 1963, the share of the large companies is shown not only in terms of value added but in terms of eight other items as well: Number of establishments, total employment, total payroll, number of production workers, production worker man-hours, production worker wages, value of shipments, and new capital expenditures. Figures in this table on total employment and total payrolls include the central administrative offices and auxiliary units serving manufacturing establishments. (See introduction, for definition of these establishments.)

(3) In table 1C, the 50 and 100 largest companies in each of several census years were identified and the share of total value added by manufacture accounted for by these same companies in each of the specified census years was computed. Thus, the tables show the changes in shares of value added taking place for a fixed group of companies from one census to another.

(4) For table 1D, the 50 largest companies in one census year were selected and the rank groups of these same companies determined in the other census years. Thus, this better measures the shifting of position of a fixed group of companies from one census to another.

The standard formula for calculating value added by manufacture since 1958 differs from the one used for the 1954 census and earlier years. During the earlier period, the "value added" of an establishment was calculated by subtracting the cost of materials, supplies, containers, fuels, purchased electric energy, and contract work from the value of shipments for products manufactured plus miscellaneous receipts for services rendered.

This is known as unadjusted value added in census publications. Beginning with 1958, the measure of value added has been adjusted for each establishment in two respects: Value added now includes (1) value added by merchandising (that is, the difference between the sales value and cost of merchandise sold without further manufacture, processing, or assembly; and (2) an adjustment for the net change in finished goods and work-in-process inventories between the beginning and the end of the year. The resulting figure is the adjusted value added.

Thus, the rankings of the 200 largest companies in 1947 and 1954 were based on unadjusted value added; those for 1958, 1962, and 1963 were based on adjusted value added. The use of these different measures for determining size should have little effect on the ranking and relative shares of individual companies or on the aggregate shares of the 50, 100, 150, or 200 largest companies in each year.

TABLE 2

This table is based on the industry approach described above. In using it, the following should be kept in mind:

(1) The industry categories are those described in the 1957 edition of the Standard Industrial Classification Manual (SIC) as amended by the Supplement to 1957 Edition published by the Bureau of the Budget in 1963. They differ from those used to prepare table 2 of the report, Concentration Ratios in Manufacturing Industry: 1958, but are the same as those used to prepare the final 1963 Census of Manufactures reports. The 1945 definitions were used to prepare the 1958 industry concentration ratios (but not the product class ratios) in order to achieve comparability with the series extending back to 1935. (See the introduction to Concentration Ratios in Manufacturing Industry: 1958.)

In table 2, figures are shown for prior years only if the industries were judged sufficiently comparable in definition under both the 1957 (new SIC) and 1945 (old SIC) system. If the employment in the plants reclassified into the new SIC from other industries and reclassified out of the old SIC to other industries, accounted for 2 percent or less of the original total employment in the old SIC industry, the industries were considered sufficiently comparable to show historical data. The composition of the new and the old SIC appears in table 7 of the report, Concentration Ratios in Manufacturing Industry: 1958, and in appendix C of the 1958 Census of Manufactures volumes.

It was not feasible to recalculate the 1958 concentration ratios on the new SIC because of the serious problem of disclosure of individual company data that would result. Under the law (13 U.S.C.) the Census Bureau cannot publish information, which will disclose the operations of individual companies.

(2) The top 4, 8, 20, and 50 companies are the largest for each particular year based on their value of shipments and are thus not necessarily the same for each year. Value added rather than value of shipments has been used in making these calculations for a few industries which contain a large and often indeterminate amount of duplication because the products of some establishments in the industry are used to a significant degree as materials by other establishments in the same industry.

(3) Since, for the purpose of these tabulations, a company is defined as the total of the individual establishments operated by the company within an industry, the same company may appear in several industries if it has diversified activities.

(4) The value of shipments in table 2 is not completely comparable between 1963 and prior years. In 1963, the value of shipments includes resales as well as the value of primary products, secondary products, and miscellaneous receipts. In 1958 and prior

years, resales were excluded from the value of shipments. In most industries and plants resales activity is so small it does not affect comparability. For a few industries so noted, comparable figures are not shown even if the SIC definition is comparable because resales were significant enough to change rankings in earlier years and thus affect comparability.

(5) In 1963, establishments in Alaska and Hawaii are included in the industry totals. In 1958, these States were not included as part of the U.S. totals since they did not achieve statehood until 1959. For a few industries, the 1958 to 1963 comparability of the industry data and concentration ratios is significantly affected even though the SIC definitions of the industry did not change. These industries are appropriately footnoted to explain the suppression of the data prior to 1963.

For a more complete discussion of the development of concentration ratios and some discussion of their limitations, see the introduction to the text of the report Concentration Ratios in Manufacturing Industry: 1963.

Table 1A. Share of Total Value Added by Manufacture Accounted for by Largest Manufacturing Companies in 1963 Compared with Share Accounted for by Largest Companies in 1962, 1958, 1954, and 1947

Company rank group in respective years	Percent of value added by manufacture				
	1963	1962[1]	1958	1954	1947
Largest 50 companies	25	24	23	23	17
Largest 100 companies	33	32	30	30	23
Largest 150 companies	37	36	35	34	27
Largest 200 companies	41	40	38	37	30

Note: See footnotes at end of table 1D.

Table 1B. Percent of All Manufacturing Activity in 1963 Accounted for by the 50, 100, 150, and 200 Largest Manufacturing Companies Ranked on 1963 Value Added by Manufacture

Item	All manufacturing establishments	Percent accounted for by establishments of the largest companies				
		50 largest	51 to 100	101 to 150	151 to 200	200 largest total
Establishments[2] ..... number	r311,921	1	1	1	(Z)	3
Adjusted value added $1,000	r192,103,102	25	8	5	4	41
All employees:[2]						
Total ..... number	r16,960,983	19	6	4	3	31
Payroll $1,000	r99,904,279	24	8	4	3	39
Production workers:						
Total ..... number	r12,232,041	17	6	3	2	28
Man-hours 1,000	r24,509,450	17	6	3	2	29
Wages $1,000	r62,093,601	22	7	4	3	36
Value of shipments[3] ..... do	r420,528,098	25	9	4	4	42
New capital expenditures[4] ..... do	r11,370,935	28	10	4	4	46

Note: The percentages for each of the groups of 50 companies may not add to the percentage for the 200 companies because of independent rounding. See appendix for definition of terms; see end of table 1D for footnotes.

(Z) Less than one-half of one percent r Revised.

Table 1C. Percent of Total Value Added by Manufacture Accounted for by the 50 and 100 Identical Manufacturing Companies Which Were the Largest in 1963, 1962, 1958, 1954, and 1947

Specified year and company rank group (a)	Percent of value added by manufacture in each year accounted for by the largest companies in the specified year in column (a)				
	1963 (b)	1962[1] (c)	1958 (d)	1954 (e)	1947 (f)
1963					
Largest 50 companies	25	24	23	22	15
Largest 100 companies	33	32	30	29	22
1962					
Largest 50 companies	25	24	23	22	15
Largest 100 companies	32	32	30	29	21
1958					
Largest 50 companies	24	24	23	23	16
Largest 100 companies	32	31	30	29	22
1954					
Largest 50 companies	24	23	23	23	16
Largest 100 companies	31	30	30	30	21
1947					
Largest 50 companies	21	21	20	21	17
Largest 100 companies	28	27	27	27	23

Note: See footnotes at end of table 1D.

Table 1D. 50 Largest Companies in Each Specified Census Year-With Their Rank Group in Other Census Years

(The 50 largest companies in one census year were selected and the rank group of the same companies determined in other census years. This table thus measures the shifting of position of a fixed group of companies from one census to another)

Specified year and company rank group	Number of companies in the rank group in--				
	1963	1962[1]	1958	1954	1947
1963					
Among 50 largest	50	46	42	38	30
Among 51st to 100th largest	-	4	6	10	10
Among 101st to 200th largest	-	-	2	2	10
Not among 200 largest	-	-	-	-	-
1962					
Among 50 largest	46	50	42	38	29
Among 51st to 100 th largest	4	-	7	11	10
Among 101st to 200th largest	-	-	1	1	10
Not among 200 largest	-	-	-	-	1
1958					
Among 50 largest	42	42	50	45	34
Among 51st to 100th largest	8	8	-	5	10
Among 101st to 200th largest	-	-	-	-	6
Not among 200 largest	-	-	-	-	-
1954					
Among 50 largest	38	38	45	50	35
Among 51st to 100th largest	11	11	4	-	11
Among 101st to 200th largest	1	1	1	-	3
Not among 200 largest	-	-	-	-	1
1947					
Among 50 largest	30	29	34	35	50
Among 51st to 100th largest	16	16	12	12	-
Among 101st to 200th largest	3	5	4	3	-
Not among 200 largest	1	-	-	-	-

[1]Based on 1962 Annual Survey of Manufactures.
[2]Includes central administrative offices and auxiliaries serving manufacturing establishments.
[3]Includes substantial but unmeasurable amount of duplication since the output of some establishments is used as materials by other establishments within manufacturing.
[4]Includes expenditures for plants under construction but not yet in operation during 1963.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935

Code[1]	Industry and year[1]	Companies[2] (number)	Value of shipments[3] Total ($1,000)	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies	Primary product specialization ratio[5] (percent)	Coverage ratio[6] (percent)
		GROUP 20. FOOD AND KINDRED PRODUCTS							
2011	Meat slaughtering plants:								
	1963	2,833	[7]1,908,309	31	42	54	64	98	86
	1958	2,646	[7]1,677,055	34	46	57	65	98	88
	1954	2,228	[7]1,394,486	39	51	60	(NA)	98	87
	1947	1,999	[7]977,144	41	54	63	(NA)	(NA)	(NA)
2013	Meat processing plants:								
	1963	1,273	[7]563,362	16	23	35	51	94	38
2015	Poultry dressing plants:								
	1963	842	2,240,871	14	20	30	47	98	98
2021	Creamery butter:								
	1963	725	988,777	11	19	31	48	69	77
	1958	997	947,410	11	18	28	45	70	80
	1954	1,172	926,414	16	24	34	(NA)	74	77
	1947[8]	1,482	844,713	18	24	32	(NA)	79	84
2022	Natural and process cheese:								
	1963	982	1,170,836	44	51	59	69	93	96
2023	Condensed and evaporated milk:								
	1963	167	937,925	40	53	71	90	80	66
2024	Ice cream and frozen deserts:								
	1963	901	1,076,479	37	48	64	74	93	74
	1958	1,171	877,716	38	48	59	69	94	71
	1954	1,375	727,433	36	45	57	(NA)	93	70
	1947[8]	1,273	611,755	40	48	57	(NA)	90	87
2026	Fluid milk:								
	1963	4,030	7,025,892	23	30	40	48	90	95
	1958	5,008	5,802,015	23	29	37	45	90	95
	1954[9]	(NA)	4,586,750	22	28	(NA)	(NA)	(NA)	(NA)
2031	Canned and cured seafoods:								
	1963[10]	345	[11]452,454	38	51	66	80	92	95
2032	Canned specialties:								
	1963	154	[11]1,169,299	67	83	94	99	80	91
2033	Canned fruits and vegetables:								
	1963	1,135	[11]2,742,787	24	34	50	66	89	91
2034	Dehydrated foods products:								
	1963	126	318,660	37	56	80	96	96	89
	1958	130	267,285	45	66	82	98	97	93
	1954	119	192,200	48	69	87	(NA)	95	97
	1947	120	51,079	56	71	86	(NA)	96	90
2035	Pickles, sauces, salad dressings:								
	1963	541	[11]677,268	36	46	64	79	79	82
2036	Fresh or frozen packaged fish:								
	1963	528	[11]391,174	25	38	53	68	95	94
	1958	429	[11]282,673	18	30	47	68	93	96
	1954[12]	288	[11]164,625	24	37	56	(NA)	94	95
2037	Frozen fruits and vegetables:								
	1963	566	[11]1,548,663	24	37	54	70	89	89
2041	Flour mills:								
	1963	510	2,176,529	35	50	71	88	94	78
	1958	703	1,969,993	38	51	68	85	93	85
	1954	692	1,858,888	40	52	68	(NA)	94	84
	1947	1,084	2,526,646	29	41	57	(NA)	92	92
	1935	(NA)	(NA)	29	37	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2] (number)	Value of shipments[3] Total ($1,000)	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies	Primary product specialization ratio[5] (percent)	Coverage ratio[6] (percent)
		GROUP 20. FOOD AND KINDRED PRODUCTS—Continued							
2042	Prepared animal feeds:								
	1963	2,150	3,880,122	22	28	40	54	96	93
	1958	2,016	2,942,008	22	30	43	56	97	91
	1954	2,037	2,702,267	21	29	43	(NA)	95	90
	1947	2,372	2,112,241	19	27	40	(NA)	95	89
	1935	(NA)	(NA)	23	34	(NA)	(NA)	(NA)	(NA)
2043	Cereal preparations:								
	1963	35	625,058	86	96	99+	100	80	86
	1958	34	432,974	83	95	99+	100	80	81
	1954	37	345,843	88	95	99+	100	77	80
	1947	55	284,320	79	91	98	(NA)	68	87
	1935	(NA)	(NA)	68	82	(NA)	(NA)	(NA)	(NA)
2044	Rice milling:								
	1963	62	423,022	44	66	86	99+	100	100
	1958	61	282,342	43	64	84	99	100	100
	1954	65	266,861	41	60	81	(NA)	99	100
	1947	75	224,741	33	48	72	(NA)	100	100
	1935	(NA)	(NA)	38	52	(NA)	(NA)	(NA)	(NA)
2045	Blended and prepared flour:								
	1963	140	434,023	70	82	92	98	78	62
2046	Wet corn milling:								
	1963	49	622,442	71	93	99	100	83	93
	1958	53	521,970	73	92	99	99+	91	96
	1954	54	458,442	75	93	99	99+	91	96
	1947	47	459,978	77	95	99+	100	88	96
	1935	(NA)	(NA)	79	95	(NA)	(NA)	(NA)	(NA)
2051	Bread and related products:								
	1963	4,339	4,505,995	23	35	45	56	98	99
	1958	5,305	3,699,473	22	33	42	51	98	99
	1954	5,470	3,067,017	20	31	40	(NA)	98	99
	1947	5,985	2,403,589	16	26	36	(NA)	98	99
2052	Biscuit, crackers, and cookies:								
	1963	286	1,150,149	59	68	80	91	97	95
2061	Raw cane sugar:[10]								
	1963	50	378,710	47	65	82	100	99	100
2062	Cane sugar refining:[10]								
	1963	16	1,271,229	63	83	100	(X)	100	100
2063	Beet sugar:								
	1963	11	564,073	66	97	100	(X)	100	100
	1958	15	382,091	64	94	100	(X)	100	100
	1954	15	291,248	66	96	100	(X)	100	100
	1947	17	262,872	68	94	100	(X)	100	100
	1935	(NA)	(NA)	68	89	(NA)	(NA)	(NA)	(NA)
2071	Confectionary products:								
	1963	1,142	1,454,512	15	25	45	64	95	95
	1958	1,301	1,170,109	18	27	44	62	96	96
	1954	1,388	992,597	19	27	43	(NA)	95	96
	1947	1,620	994,925	17	25	39	(NA)	97	97
	1935	(NA)	(NA)	12	19	(NA)	(NA)	(NA)	(NA)
2072	Chocolate and cocoa products:								
	1963	24	479,085	75	87	99+	100	99	82
	1958	26	446,831	71	84	98	100	98	87
	1954	27	423,842	70	83	98	100	98	89
	1947	31	349,907	68	81	96	100	99	100
	1935	(NA)	(NA)	67	77	(NA)	100	(NA)	(NA)

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2] (number)	Value of shipments[3] Total ($1,000)	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies	Primary product specialization ratio[5] (percent)	Coverage ratio[6] (percent)
		GROUP 20. FOOD AND KINDRED PRODUCTS—Continued							
2073	Chewing gum:								
	1963	20	224,844	90	97	100	(X)	88	96
	1958	24	184,255	89	96	99+	100	91	96
	1954	27	158,081	86	94	99+	100	95	98
	1947	35	148,286	70	87	98	100	(D)	(D)
	1935	(NA)	(NA)	97	97	(NA)	(NA)	(NA)	(NA)
2082	Malt liquors:								
	1963[13]	171	2,315,068	34	52	78	94	100	100
	1958	211	1,979,730	28	44	68	88	100	100
	1954	263	1,857,053	27	41	60	(NA)	100	100
	1947	404	1,316,005	21	30	44	(NA)	100	99
	1935	(NA)	(NA)	11	17	(NA)	(NA)	(NA)	(NA)
2083	Malt:								
	1963	29	183,515	38	62	95	100	100	95
	1958	32	183,434	50	70	95	100	100	98
	1954	35	201,988	49	69	93	100	100	100
	1947	41	256,230	49	69	92	100	100	100
	1935	(NA)	(NA)	44	65	(NA)	(NA)	(NA)	(NA)
2084	Wines and brandy:[14]								
	1963	194	[7]137,281	44	62	76	90	98	99
	1958	216	[7]101,667	35	50	70	87	98	96
	1954	244	[7]96,749	38	54	71	(NA)	(NA)	(NA)
	1947	379	[7]95,015	26	42	55	(NA)	(NA)	100
2085	Distilled liquor, except brandy:								
	1963	70	[11]1,090,462	58	74	92	99	98	99
	1958	88	[11]830,175	60	77	94	99	98	100
	1954	98	[11]711,313	64	79	93	(NA)	99+	100
	1947	144	[11]870,235	75	86	95	(NA)	99	99
	1935	(NA)	(NA)	51	71	(NA)	(NA)	(NA)	(NA)
2086	Bottled and canned soft drinks:								
	1963	3,569	2,210,920	12	17	24	34	98	95
	1958	3,989	1,434,867	11	15	22	28	98	98
	1954	4,334	1,113,077	10	14	21	(NA)	98	99
	1947	5,169	748,196	10	14	20	(NA)	99	99
	1935	(NA)	(NA)	8	13	(NA)	(NA)	(NA)	(NA)
2087	Flavorings:								
	1963	492	729,704	62	70	78	86	90	78
	1958	498	494,925	55	67	78	87	90	83
	1954	530	446,056	53	63	75	(NA)	91	87
	1947	582	313,573	50	58	68	(NA)	93	89
	1935	(NA)	(NA)	47	54	(NA)	(NA)	(NA)	(NA)
2091	Cottonseed oil mills:								
	1963	115	555,188	41	56	72	91	89	91
	1958	125	383,368	42	54	71	91	92	92
	1954	145	546,430	47	57	72	(NA)	96	93
	1947	177	518,091	43	55	68	(NA)	90	99
	1935	(NA)	(NA)	32	43	(NA)	(NA)	(NA)	(NA)
2092	Soybean oil mills:								
	1963	68	1,473,385	50	70	88	99+	89	95
	1958	[15]66	999,202	40	63	86	99+	87	94
	1954	55	826,362	41	64	89	(NA)	88	96
	1947	105	585,709	44	63	81	(NA)	96	80
2093	Vegetable oil mills, n.e.c.:								
	1963	39	234,168	58	83	99	100	84	83
	1958[16]	38	216,061	66	93	(NA)	100	80	93

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2] (number)	Value of shipments[3] Total ($1,000)	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies	Primary product specialization ratio[5] (percent)	Coverage ratio[6] (percent)
		GROUP 20. FOOD AND KINDRED PRODUCTS—Continued							
2094	Animal and marine fats and oils:								
	1963	516	473,993	23	31	43	61	94	66
	1958[17]	(NA)	362,456	20	30	(NA)	(NA)	(NA)	(NA)
2095	Roasted coffee:								
	1963	261	1,868,058	52	68	84	94	90	99
2096	Shortening and cooking oils:								
	1963	65	1,324,357	42	64	92	99+	88	89
	1958[18]	62	1,152,595	44	69	(NA)	(NA)	93	90
2097	Manufactured ice:								
	1963	862	122,550	32	39	48	59	99	100
	1958	1,099	130,095	31	41	49	59	99	99
	1954	1,430	143,280	26	32	41	(NA)	100	97
	1947	2,206	273,415	22	30	40	(NA)	100	98
	1935	(NA)	(NA)	20	28	(NA)	(NA)	(NA)	(NA)
2098	Macaroni and spaghetti:								
	1963	207	222,947	31	47	71	91	96	94
	1958	205	167,510	25	41	64	87	97	98
	1954	226	149,656	26	37	58	(NA)	98	95
	1947	219	112,094	23	35	56	(NA)	98	99
	1935	(NA)	(NA)	16	26	(NA)	(NA)	(NA)	(NA)
2099	Food preparations, n.e.c.:								
	1963	1,977	1,797,284	24	33	48	64	91	78
		GROUP 21. TOBACCO MANUFACTURERS							
2111	Cigarettes:								
	1963	7	[11]2,655,346	80	100	(X)	(X)	97	100
	1958	12	[11]2,159,135	79	99+	100	(X)	99	100
	1954	12	[11]1,640,950	82	99+	100	(X)	99	100
	1947	19	[11]1,131,891	90	99+	100	(X)	96	100
	1935	(NA)	(NA)	89	99	(NA)	(NA)	(NA)	(NA)
2121	Cigars:								
	1963	164	[11]358,463	59	81	92	99	100	100
	1958	247	[11]351,614	54	75	86	96	100	100
	1954	375	[11]339,452	44	64	80	(NA)	99	100
	1947	765	[11]311,401	41	57	76	(NA)	99	100
	1935	(NA)	(NA)	38	50	(NA)	(NA)	(NA)	(NA)
2131	Chewing and smoking tobacco:								
	1963	45	[11]139,543	58	83	98	100	97	61
	1958	52	[11]173,682	57	82	98	99+	98	88
	1954	58	[11]161,739	58	82	99	(NA)	96	89
	1947	65	[11]140,142	61	81	98	(NA)	98	86
	1935	(NA)	(NA)	56	84	(NA)	(NA)	(NA)	(NA)
2141	Tobacco stemming and redrying:								
	1963	59	[11]1,366,602	70	92	97	99+	100	100
	1958	64	[11]1,036,998	73	90	96	99+	100	100
	1954	72	[11]1,043,213	79	91	96	(NA)	100	99
	1947	93	[11]957,808	88	95	97	(NA)	100	98
		GROUP 22. TEXTILE MILL PRODUCTS							
2211	Weaving mills, cotton:								
	1963	229	3,104,053	30	46	67	87	92	80
	1958	321	2,719,432	25	40	59	79	94	82
	1954	413	2,789,621	18	29	49	(NA)	94	84
	1947	(19)	2,912,651	(19)	(19)	(19)	(19)	(19)	(19)

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2] (number)	Value of shipments[3] Total ($1,000)	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies	Primary product specialization ratio[5] (percent)	Coverage ratio[6] (percent)
		GROUP 22. TEXTILE MILL PRODUCTS—Continued							
2221	Weaving mills, synthetics:								
	1963	277	1,722,356	39	48	64	82	86	82
	1958	328	1,230,724	34	44	62	78	85	88
	1954	396	1,142,629	30	39	55	(NA)	87	90
	1947	432	1,002,923	31	39	56	(NA)	85	(NA)
2231	Weaving, finishing mills, wool:								
	1963	304	1,010,692	51	58	71	85	86	96
2241	Narrow fabric mills:[20]								
	1963	350	349,071	20	30	47	68	91	97
	1958	455	289,110	16	26	41	62	94	97
	1954	489	250,162	13	21	37	(NA)	96	94
	1947	445	215,194	17	25	41	(NA)	95	98
2251	Women's hosiery, except socks:								
	1963	363	606,560	34	47	64	79	96	94
2252	Hosiery, n.e.c.:								
	1963	504	451,098	18	25	38	58	91	96
2253	Knit outerwear mills:[21]								
	1963	1,175	1,045,470	11	16	27	43	92	97
	1958	1,111	774,251	7	10	20	35	91	74
	1954	1,081	544,129	6	10	20	(NA)	93	73
	1947	1,196	330,474	8	13	24	(NA)	91	82
2254	Knit underwear mills:[21]								
	1963	104	r364,834	33	52	73	93	89	91
	1958	133	r299,506	r28	r43	r64	87	88	r89
	1954	140	256,290	26	40	64	(NA)	88	(NA)
	1947	140	295,411	21	34	57	(NA)	87	70
2256	Knit fabric mills:								
	1963	487	817,383	18	25	42	65	95	93
	1958	336	486,116	18	30	51	72	94	90
	1954	324	377,383	17	29	51	(NA)	94	91
	1947	297	197,454	27	37	56	(NA)	93	88
2259	Knitting mills, n.e.c.:[21]								
	1963	86	40,731	34	50	75	96	93	86
	1958[22]	71	29,219	34	54	(NA)	(NA)	91	78
2261	Finishing plants, cotton:								
	1963	220	869,746	45	59	77	92	81	[23]60
2262	Finishing plants, synthetic:								
	1963	193	323,701	31	44	61	81	91	[24]46
2269	Finishing plants, n.e.c.:								
	1963	174	206,920	32	47	68	86	89	[25]64
2271	Woven carpets and rugs:								
	1963	56	[7]120,004	67	88	98	99+	77	92
2272	Tufted carpets and rugs:								
	1963	167	801,804	25	41	65	87	96	96
2279	Carpets and rugs, n.e.c.								
	1963	103	29,585	32	49	76	95	89	46
2281	Yarn mills, except wool:								
	1963	234	1,067,043	17	27	46	68	96	[26]83

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2]	Value of shipments[3]					Primary product specialization ratio[5]	Coverage ratio[6]
			Total	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies		
		(number)	($1,000)					(percent)	(percent)
		GROUP 22. TEXTILE MILL PRODUCTS—Continued							
2282	Throwing and winding mills:								
	1963	165	319,252	43	59	78	92	95	87
2283	Wool yarn mills:								
	1963	136	422,189	26	41	65	90	85	82
2284	Thread mills:[20]								
	1963	59	r194,068	r68	r85	r96	r99+	93	90
	1958	72	r175,522	r66	r79	r93	r99+	90	91
	1954	84	183,746	66	78	92	(NA)	88	94
	1947	83	154,269	65	78	90	(NA)	85	(NA)
2291	Felt goods, n.e.c.:								
	1963	28	133,998	54	75	98	100	86	88
	1958	[27]61	91,393	45	66	94	99+	89	86
	1954	65	92,931	41	65	92	(NA)	90	92
	1947	37	59,764	56	81	97	100	95	97
	1935	(NA)	(NA)	61	81	(NA)	(NA)	(NA)	(NA)
2292	Lace goods:								
	1963	[28]145	53,046	27	47	71	89	98	91
	1958	[27]204	61,935	21	36	63	82	98	95
	1954	133	59,795	23	39	64	(NA)	99	94
	1947	93	68,663	26	47	77	(NA)	94	97
	1935	(NA)	(NA)	38	59	(NA)	(NA)	(NA)	(NA)
2293	Padding and upholstery filling:								
	1963	[28]168	156,539	28	42	64	85	84	81
	1958	177	132,216	25	38	60	81	92	88
	1954	179	148,828	32	50	69	(NA)	91	90
	1947	124	110,352	41	53	74	(NA)	96	92
2294	Processed textile waste:								
	1963	[28]137	87,482	38	52	69	87	95	86
	1958	[27]181	80,839	21	34	56	79	96	93
	1954	198	85,023	18	31	55	(NA)	96	93
	1947	177	57,255	23	35	57	(NA)	94	91
2295	Coated fabric, not rubberized:								
	1963	149	435,743	34	54	79	92	86	83
	1958	122	249,833	42	57	76	95	82	80
	1954	103	212,310	43	61	82	(NA)	86	82
	1947	106	162,597	34	53	81	(NA)	84	82
2296	Tire cord and fabric:								
	1963	12	375,689	79	96	100	(X)	87	91
2297	Scouring and combing plants:								
	1963	64	119,918	61	79	93	99+	94	69
	1958	78	85,683	58	73	89	99	92	59
	1954	70	94,168	53	68	87	(NA)	83	60
	1947	(19)	75,557	(19)	(19)	(19)	(19)	(19)	(19)
2298	Cordage and twine:								
	1963	148	149,331	35	53	76	93	90	87
	1958	128	135,262	38	56	77	93	92	93
	1954	119	159,948	40	59	81	(NA)	90	89
	1947	132	170,897	33	53	77	(NA)	87	87
	1935	(NA)	(NA)	31	44	(NA)	(NA)	(NA)	(NA)
2299	Textile goods, n.e.c.:								
	1963	127	169,770	38	60	83	96	85	82

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2] (number)	Value of shipments[3] Total ($1,000)	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies	Primary product specialization ratio[5] (percent)	Coverage ratio[6] (percent)
	GROUP 23. APPAREL AND RELATED PRODUCTS								
2311	Men's and boy's suits and coats:[21]								
	1963	1,031	1,526,019	14	23	38	56	92	96
	1958	1,275	1,260,920	11	19	32	49	91	97
	1954	1,255	1,140,731	11	18	31	(NA)	91	96
	1947	1,761	1,412,782	9	15	26	(NA)	92	97
2321	Men's dress shirts and nightwear:[21]								
	1963	659	1,295,079	22	32	49	67	85	[29]81
	1958	737	942,073	16	26	41	59	90	[29]82
	1954	838	893,980	17	26	40	(NA)	91	85
	1947	922	731,277	19	29	43	(NA)	94	87
2322	Men's and boys' underwear:[21]								
	1963	65	134,949	42	59	86	99	89	[29]31
	1958	79	100,238	30	46	79	88	86	[29]30
	1954	72	74,324	43	56	85	(NA)	88	28
	1947	94	49,753	47	59	80	(NA)	95	21
2323	Men's and boys' neckwear:[21]								
	1963	341	121,313	19	28	43	65	98	98
	1958	362	95,440	17	24	39	59	97	98
	1954	403	100,036	16	24	41	(NA)	98	92
	1947	408	113,688	20	29	46	(NA)	97	93
2327	Separate trousers:[21]								
	1963	667	824,224	16	25	40	58	83	78
	1958	720	442,058	9	17	30	50	89	71
	1954	768	397,685	12	19	33	(NA)	89	75
	1947	956	334,039	12	18	29	(NA)	86	70
2328	Work shirts:								
	1963	301	824,710	27	40	59	79	81	90
2329	Men's and boys' clothing, n.e.c.:								
	1963	529	397,551	13	19	32	51	83	[29]47
2331	Blouses:[20] [21]								
	1963	1,130	610,185	11	15	27	44	86	69
	1958	1,222	414,649	10	14	24	39	89	78
	1954	1,233	375,262	11	16	25	(NA)	93	85
	1947	1,356	276,575	7	11	20	(NA)	93	88
2335	Dresses:								
	1963	4,577	2,410,972	6	9	14	23	96	96
2337	Women's suits, coats, and skirts:[21]								
	1963	2,481	1,522,725	8	11	17	28	88	92
	1958	2,651	1,220,230	3	5	11	21	93	93
	1954	3,178	1,261,320	3	6	11	(NA)	94	93
	1947	([19])	1,092,807	([19])	([19])	([19])	([19])	([19])	([19])
2339	Women's outerwear, n.e.c.:								
	1963	1,252	785,958	14	22	33	48	80	55
2341	Women's and children's underwear:[21]								
	1963	978	976,108	11	17	31	50	93	[30]85
	1958	1,170	804,870	8	13	24	41	96	83
	1954	1,276	770,026	8	13	24	(NA)	95	98
	1947	1,467	575,679	6	11	19	(NA)	(NA)	(NA)

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2]	Value of shipments[3]					Primary product specialization ratio[5]	Coverage ratio[6]
			Total	Percent accounted for by[4]--					
				4 largest companies	8 largest companies	20 largest companies	50 largest companies		
		(number)	($1,000)					(percent)	(percent)
		GROUP 23. APPAREL AND RELATED PRODUCTS—Continued							
2342	Corsets and allied garments:[21]								
	1963	296	593,912	29	45	64	81	95	97
	1958	363	462,235	29	43	59	75	96	98
	1954	424	394,808	26	38	57	(NA)	96	(NA)
	1947	493	277,791	16	30	47	(NA)	(NA)	(NA)
2351	Millinery:[21]								
	1963	710	163,185	9	14	22	36	100	100
	1958	801	188,271	6	10	19	33	100	99
	1954	865	173,125	7	12	20	(NA)	99	98
	1947	927	177,728	7	10	18	(NA)	99	98
2352	Hats and caps:[21]								
	1963	413	r171,108	31	40	52	69	98	98
	1958[31]	(NA)	163,694	28	36	(NA)	(NA)	98	98
2361	Children's dresses and blouses:								
	1963	627	443,343	12	20	34	54	90	[32]82
2363	Children's coats and suits:[21]								
	1963	269	162,929	14	24	43	67	92	85
	1958	361	163,743	11	19	35	58	93	83
	1954	400	172,110	14	22	35	(NA)	91	81
	1947	([19])	114,199	([19])	([19])	([19])	([19])	([19])	([19])
2369	Children's outerwear, n.e.c.:								
	1963	601	419,551	16	23	35	54	79	[32]67
2371	Fur goods:[21]								
	1963	1,591	334,414	5	8	15	26	99	100
	1958	1,651	275,309	5	8	14	25	99	100
	1954	1,972	227,525	4	6	11	(NA)	99	100
	1947	2,227	357,013	3	5	9	(NA)	100	100
	1935	(NA)	(NA)	2	4	(NA)	(NA)	(NA)	(NA)
2381	Fabric dress and work gloves:[21]								
	1963	170	149,503	31	45	69	88	94	[33]82
	1958[34]	189	112,050	30	46	(NA)	(NA)	94	[33]84
2384	Robes and dressing gowns:[21]								
	1963	268	173,450	17	28	48	75	96	94
	1958	278	132,548	14	23	43	68	93	96
	1954	322	107,964	15	25	45	(NA)	93	84
	1947	370	103,024	10	19	38	(NA)	89	82
2385	Waterproof outergarments:[21]								
	1963	331	235,540	19	28	45	68	92	93
	1958	272	146,340	20	29	49	74	(NA)	90
	1954	291	119,660	20	30	50	(NA)	89	81
	1947	245	80,751	23	37	55	(NA)	85	73
2386	Leather and sheeplined clothing:[21]								
	1963	114	56,380	28	43	66	92	97	83
	1958	154	64,272	18	30	52	81	94	91
	1954	153	56,383	18	31	53	(NA)	85	80
	1947	125	40,555	24	39	67	(NA)	79	80
2387	Apparel belts:[21]								
	1963	388	108,600	23	30	43	62	91	94
	1958	458	93,836	21	27	36	54	92	95
	1954	501	106,311	19	25	36	(NA)	92	94
	1947	390	68,982	23	31	44	(NA)	90	95

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2] (number)	Value of shipments[3] Total ($1,000)	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies	Primary product specialization ratio[5] (percent)	Coverage ratio[6] (percent)
		GROUP 23. APPAREL AND RELATED PRODUCTS—Continued							
2389	Apparel, n.e.c.:								
	1963	265	98,173	19	31	50	74	93	82
2391	Curtains and draperies:								
	1963	[35]1,092	312,987	21	33	45	60	95	95
	1958	757	206,459	26	34	45	61	(NA)	92
	1954	697	172,668	20	28	42	(NA)	94	89
	1947	379	109,640	18	29	49	(NA)	97	90
2392	Housefurnishings, n.e.c.:								
	1963	1,205	716,650	18	24	35	50	88	50
	1958	1,181	591,479	18	25	39	52	89	60
	1954	1,203	503,203	21	29	42	(NA)	91	59
	1947	1,209	502,461	33	44	58	(NA)	93	87
2393	Textile bags:								
	1963	175	200,426	38	51	68	87	88	85
	1958	217	186,340	40	51	66	85	86	87
	1954	235	220,978	45	56	70	(NA)	84	85
	1947	198	355,981	53	63	77	(NA)	93	98
2394	Canvas products:								
	1963	869	166,402	18	25	37	54	92	91
	1958	846	119,044	14	22	34	49	90	90
	1954	1,100	129,611	14	19	31	(NA)	89	86
	1947	889	91,108	10	17	31	(NA)	91	93
2395	Pleating and stitching:								
	1963	1,315	150,183	9	13	20	32	97	98
2396	Apparel findings:								
	1963	746	570,616	58	63	71	79	98	97
2397	Schiffli machine embroideries:								
	1963	755	97,406	13	21	33	49	96	99
	1958	706	74,797	11	15	26	39	99	98
	1954	601	65,834	15	21	32	(NA)	98	99
	1947	542	55,514	17	23	36	(NA)	98	96
2399	Textile products, n.e.c.:								
	1963	1,027	342,311	14	22	40	59	86	75
		GROUP 24. LUMBER AND WOOD PRODUCTS							
2411	Logging camps and contractors:								
	1963	13,522	[36]1,154,693	11	19	25	31	99	90
	1958	12,730	833,814	13	19	25	32	93	92
	1954	12,789	733,417	8	13	20	(NA)	98	89
2421	Sawmills and planing mills:								
	1963	11,931	3,156,345	11	14	20	29	89	95
2426	Hardwood dimension and flooring:								
	1963	601	345,227	17	22	34	51	86	86
2429	Special product sawmills, n.e.c.:								
	1963	476	96,032	17	25	41	62	98	[37]49
2431	Millwork plants:								
	1963	3,730	1,270,613	7	10	17	28	95	93
2432	Veneer and plywood plants:								
	1963	532	1,339,630	23	31	42	58	92	94

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2]	Value of shipments[3]					Primary product specialization ratio[5]	Coverage ratio[6]
			Total	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies		
		(number)	($1,000)					(percent)	(percent)
	GROUP 24. LUMBER AND WOOD PRODUCTS—Continued								
2433	Prefabricated wood products:								
	1963	528	403,309	25	34	49	64	98	96
	1958	364	300,572	28	36	52	71	98	98
	1954	222	224,388	32	43	61	(NA)	99	95
	1947	197	103,311	16	28	50	(NA)	93	96
2441	Nailed wooden boxes and shook:								
	1963	637	206,020	26	31	41	56	85	83
2442	Wirebound boxes and crates:								
	1963	100	114,669	33	49	74	97	92	93
2443	Veneer and plywood containers:								
	1963	93	27,923	39	50	73	95	90	79
	1958	94	27,786	27	43	67	95	93	88
	1954	126	30,516	30	46	66	(NA)	91	88
	1947	129	30,584	31	42	63	(NA)	91	88
2445	Cooperage:								
	1963	71	52,917	47	71	91	99	97	99
	1958	126	69,644	45	67	87	95	96	98
	1954	104	60,350	47	66	86	(NA)	97	99
	1947	127	106,379	51	64	(NA))	(NA)	96	97
	1935	(NA)	(NA)	25	40	(NA))	(NA)	(NA)	(NA)
2491	Wood preserving:								
	1963	250	247,294	34	44	64	84	98	97
	1958	211	198,304	32	43	65	87	98	96
	1954	188	190,503	30	42	63	(NA)	97	99
	1947	136	303,957	31	44	67	(NA)	(D)	(D)
	1935	(NA)	(NA)	50	60	(NA)	(NA)	(NA)	(NA)
2499	Wood products, n.e.c.:								
	1963	2,818	785,367	14	19	27	38	92	87
	GROUP 25. FURNITURE AND FIXTURES								
2511	Wood furniture, not upholstered:								
	1963	2,937	1,857,992	11	16	25	39	94	96
	1958	2,742	1,311,480	9	13	22	34	94	94
	1954	2,731	1,113,264	8	13	21	(NA)	94	93
	1947	2,208	898,674	7	11	19	(NA)	94	94
2512	Wood furniture, upholstered:								
	1963	1,729	983,204	13	18	28	41	92	92
2514	Metal household furniture:								
	1963	508	524,305	13	20	34	59	88	89
	1958	614	489,714	14	22	38	58	88	88
	1954	635	402,575	16	26	43	(NA)	87	83
	1947	305	194,851	26	37	56	(NA)	83	73
2515	Mattresses and bedsprings:								
	1963	1,066	641,008	26	31	41	54	90	90
2519	Household furniture, n.e.c.:								
	1963	72	28,937	34	50	78	98	84	51
	1958	92	30,288	43	57	77	96	88	68
	1954	69	15,576	50	65	85	(NA)	86	59
	1947	(19)	14,030	(19)	(19)	(19)	(19)	(19)	(19)
2521	Wood office furniture:								
	1963	131	101,514	29	47	74	92	90	87
	1958	147	66,249	27	42	68	87	89	82
	1954	111	52,712	25	41	69	(NA)	86	86
	1947	114	47,483	21	34	65	(NA)	92	80

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2]	Value of shipments[3]					Primary product specialization ratio[5]	Coverage ratio[6]
			Total	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies		
		(number)	($1,000)					(percent)	(percent)
		GROUP 25.—FURNITURE AND FIXTURES—Continued							
2522	Metal office furniture:								
	1963	153	389,965	33	50	75	93	87	89
	1958	142	271,772	38	56	80	94	88	86
	1954	122	202,932	46	63	83	(NA)	84	87
	1947	100	125,682	50	66	87	(NA)	89	92
2531	Public building furniture:								
	1963	423	268,563	24	35	50	69	85	85
	1958	383	204,598	27	37	53	71	88	80
	1954	291	159,545	32	43	61	(NA)	83	86
	1947	(19)	75,992	(19)	(19)	(19)	(19)	(19)	(19)
2541	Wood partitions and fixtures:								
	1963	1,588	389,609	4	8	15	27	94	89
2542	Metal partitions and fixtures:								
	1963	502	337,843	23	33	50	70	83	82
2591	Venetian blinds and shades:								
	1963	696	199,552	37	54	71	79	89	90
	1958[38]	826	166,575	32	45	(NA)	(NA)	(NA)	(NA)
2599	Furniture and fixtures, n.e.c.:								
	1963	354	121,572	16	27	42	64	86	70
		GROUP 26.—PAPER AND ALLIED PRODUCTS							
2611	Pulp mills:								
	1963	34	609,050	48	72	97	100	88	71
	1958	49	452,023	46	68	94	100	98	73
	1954	(39)	(39)	(39)	(39)	(39)	(39)	(39)	(39)
	1947	(39)	(39)	(39)	(39)	(39)	(39)	(39)	(39)
2621	Paper mills, except building:								
	1963	186	3,824,915	26	42	63	85	90	92
2631	Paperboard mills:								
	1963	146	2,315,194	27	43	67	90	85	90
2641	Paper coating and glazing:								
	1963	323	1,161,604	30	43	64	85	82	78
2642	Envelopes:								
	1963	180	363,250	32	42	59	82	94	96
	1958	173	258,933	30	41	58	81	93	94
	1954	170	195,341	27	37	54	(NA)	96	92
	1947	142	128,346	30	40	58	(NA)	92	95
	1935	(NA)	(NA)	33	42	(NA)	(NA)	(NA)	(NA)
2643	Bags, except textile bags:								
	1963	495	1,061,715	22	36	58	76	86	88
2644	Wallpaper:								
	1963	77	36,548	33	48	75	97	97	99
	1958	70	38,464	41	57	82	98	93	99
	1954	71	39,668	40	58	80	(NA)	99	98
	1947	50	58,895	49	64	87	100	98	100
	1935	(NA)	(NA)	41	58	(NA)	(NA)	(NA)	(NA)
2645	Die cut paper and board:								
	1963	370	378,332	36	47	62	79	88	82

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2]	Value of shipments[3]					Primary product specialization ratio[5]	Coverage ratio[6]
			Total	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies		
		(number)	($1,000)					(percent)	(percent)
		GROUP 26.—PAPER AND ALLIED PRODUCTS—Continued							
2646	Pressed and molded pulp goods:								
	1963	43	110,135	72	88	96	100	99	96
	1958	46	78,208	69	89	98	100	99	96
	1954	26	42,293	72	94	99+	100	100	93
	1947	19	16,191	86	97	100	(X)	95	86
2647	Sanitary paper products:								
	1963	97	983,019	62	76	90	99	93	97
2649	Converted paper products, n.e.c.:								
	1963	570	591,750	23	31	47	69	84	78
2651	Folding paperboard boxes:								
	1963	534	1,081,147	21	37	55	69	85	88
2652	Set-up paperboard boxes:								
	1963	474	225,794	12	19	30	48	91	87
2653	Corrugated shipping containers:								
	1963	520	2,166,137	20	36	63	79	97	96
2654	Sanitary food containers:								
	1963	98	905,931	52	74	91	98	92	92
2655	Fiber cans, tubes, drums, etc.:								
	1963	166	260,257	57	72	82	92	95	80
2661	Building paper and board mills:								
	1963	33	281,564	47	68	97	100	97	88
		GROUP 27.—PRINTING AND PUBLISHING							
2711	Newspapers:								
	1963	7,982	4,483,592	15	22	36	52	96	100
	1958	7,947	3,615,556	17	24	35	51	96	100
	1954	8,445	3,091,027	18	24	34	(NA)	95	100
	1947	8,115	1,891,252	21	26	36	(NA)	94	100
2721	Periodicals:								
	1963	2,562	2,295,716	28	42	59	73	89	96
	1958	2,245	1,650,606	31	41	55	69	93	97
	1954	2,012	1,440,961	29	40	54	(NA)	95	97
	1947	2,106	1,059,566	34	43	58	(NA)	94	98
2731	Books, publishing and printing:								
	1963	936	r1,534,632	20	33	56	76	93	88
	1958	883	r1,000,904	16	29	48	69	92	90
	1954	804	665,232	21	32	51	(NA)	91	90
	1947	635	463,851	18	29	48	(NA)	92	93
2732	Book printing:								
	1963	662	546,587	19	30	48	66	78	69
	1958	785	354,343	24	34	51	68	72	60
	1954	592	221,328	21	35	53	(NA)	76	55
	1947	(19)	92,303	(19)	(19)	(19)	(19)	(19)	(19)

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2]	Value of shipments[3]					Primary product specialization ratio[5]	Coverage ratio[6]
			Total	Percent accounted for by[4]--					
				4 largest companies	8 largest companies	20 largest companies	50 largest companies		
		(number)	($1,000)					(percent)	(percent)
		GROUP 27. PRINTING AND PUBLISHING—Continued							
2741	Miscellaneous publishing:								
	1963	1,308	389,588	32	44	59	71	92	84
	1958	1,038	315,700	29	40	55	68	89	87
	1954	900	231,242	31	45	58	(NA)	85	82
	1947	569	103,343	22	33	52	(NA)	93	78
2751	Printing, except lithographic:								
	1963	11,979	2,645,051	13	19	28	38	86	79
2752	Printing, lithographic:								
	1963	6,738	2,149,651	6	10	16	25	80	82
2753	Engraving and plate printing:								
	1963	574	111,138	26	34	47	60	89	79
	1958	520	85,219	28	35	46	59	92	82
	1954	565	60,084	24	30	41	(NA)	93	79
	1947	412	45,311	38	44	55	(NA)	92	80
	1935	(NA)	(NA)	33	40	(NA)	(NA)	(NA)	(NA)
2761	Manifold business forms:								
	1963	439	637,673	46	55	68	80	90	91
2771	Greeting card manufacturing:								
	1963	239	345,961	57	71	82	92	92	96
	1958	265	276,023	45	62	75	89	94	93
	1954	280	208,905	42	57	73	(NA)	93	89
	1947	161	123,856	39	55	74	(NA)	92	87
2782	Blankbooks; looseleaf binders:								
	1963	380	268,219	33	44	57	76	88	88
2789	Bookbinding and related work:								
	1963	1,038	228,477	12	17	28	44	95	83
	1958[40]	966	181,987	10	16	(NA)	(NA)	94	86
2791	Typesetting:								
	1963	1,271	241,014	6	10	18	30	95	90
	1958	1,181	175,136	6	10	19	33	93	92
	1954	1,078	121,390	5	9	18	(NA)	94	87
	1947	793	75,703	8	13	24	(NA)	94	87
2793	Photoengraving:								
	1963	872	212,377	8	13	24	38	95	91
	1958	897	205,994	8	13	24	37	95	93
	1954	884	173,040	6	11	21	(NA)	95	93
	1947	754	133,540	8	12	22	(NA)	96	95
2794	Electrotyping and stereotyping:								
	1963	170	76,068	31	39	57	80	87	86
	1958	206	77,727	29	35	49	70	92	87
	1954	219	85,894	23	34	51	(NA)	89	89
	1947	205	58,984	24	34	49	(NA)	92	87
	1935	(NA)	(NA)	36	46	(NA)	(NA)	(NA)	(NA)
		GROUP 28.—CHEMICALS AND ALLIED PRODUCTS							
2812	Alkalies and chlorine:								
	1963	19	652,120	62	88	100	(X)	66	79
	1958	18	488,104	64	89	100	(X)	73	84
	1954	17	399,908	69	90	100	(X)	76	84
	1947	18	208,560	70	93	100	(X)	81	85
2813	Industrial gases:								
	1963	104	425,388	72	86	95	99	98	87
	1958	111	231,991	79	88	94	98	97	84
	1954	101	167,674	84	88	93	(NA)	99	84
	1947	69	93,489	83	88	94	(NA)	100	84
	1935	(NA)	(NA)	79	87	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2] (number)	Value of shipments[3] Total ($1,000)	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies	Primary product specialization ratio[5] (percent)	Coverage ratio[6] (percent)
	GROUP 28.—CHEMICALS AND ALLIED PRODUCTS—Continued								
2814	Cyclic (coaltar) crudes:								
	1963	8	105,172	(D)	100	(X)	(X)	(D)	(D)
	1958	13	114,540	93	99	100	(X)	76	83
	1954	11	77,154	94	98	100	(X)	82	72
	1947	13	60,639	91	98	100	(X)	85	78
2815	Intermediate coal tar products:								
	1963	112	1,107,583	54	70	86	98	69	65
	1958	87	779,049	54	72	89	98	66	65
	1954	83	715,602	58	82	93	(NA)	64	66
	1947	(41)	478,522	(41)	(41)	(41)	(41)	(41)	(41)
2816	Inorganic pigments:								
	1963	69	484,768	68	84	96	99+	91	87
	1958	67	402,627	69	83	96	99+	92	90
	1954	73	371,395	67	83	96	(NA)	88	88
	1947	(19)	287,046	(19)	(19)	(19)	(19)	(19)	(19)
2818	Organic chemicals, n.e.c.:								
	1963	343	4,840,176	51	63	79	93	72	81
	1958	250	3,070,155	55	70	85	96	73	80
	1954	202	2,198,687	59	73	87	(NA)	77	80
	1947	(41)	973,044	(41)	(41)	(41)	(41)	(41)	(41)
2819	Inorganic chemicals, n.e.c.:[42]								
	1963	404	3,493,870	31	49	71	88	[42]88	[42]74
	1958[43]	(NA)	2,609,471	34	50	(NA)	(NA)	(NA)	(NA)
2821	Plastics materials and resins:								
	1963	391	2,571,492	35	49	69	87	84	64
	1958	273	1,811,373	40	56	79	92	86	71
	1954	149	1,231,448	47	69	88	(NA)	90	75
	1947	94	478,331	44	63	89	(NA)	92	77
2822	Synthetic rubber:								
	1963	16	763,891	57	80	100	(X)	92	80
	1958	13	529,212	60	86	100	(X)	95	83
	1954	13	361,093	53	81	100	(X)	98	90
	1947	5	235,200	(D)	100	(X)	(X)	96	89
2823	Cellulosic man-made fibers:								
	1963	8	731,815	82	100	(X)	(X)	(D)	(D)
2824	Organic fibers, noncellulosic:								
	1963	14	1,403,178	94	99	100	(X)	95	97
2831	Biological products:								
	1963	102	95,744	36	57	86	98	88	45
	1958	110	56,558	44	59	84	97	89	41
	1954	86	60,973	46	51	81	(NA)	86	65
	1947	79	39,937	38	51	76	(NA)	87	57
2833	Medicinals and botanicals:								
	1963	122	305,793	68	79	91	99	71	47
	1958	114	299,310	64	77	89	98	72	55
	1954	107	252,478	72	84	93	(NA)	69	59
	1947	(19)	218,156	(19)	(19)	(19)	(19)	(19)	(19)
2834	Pharamaceutical preparations:								
	1963	944	3,314,323	22	38	72	89	87	94
	1958	1,064	2,533,424	27	45	73	87	88	94
	1954	1,128	1,643,140	25	44	68	(NA)	91	94
	1947	1,123	941,290	28	44	64	(NA)	91	98

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2]	Value of shipments[3]					Primary product specialization ratio[5]	Coverage ratio[6]
			Total	Percent accounted for by[4]—					
				4 largest companies	8 largest companies	20 largest companies	50 largest companies		
		(number)	($1,000)					(percent)	(percent)
		GROUP 28.—CHEMICALS AND ALLIED PRODUCTS—Continued							
2841	Soap and other detergents:								
	1963	641	2,127,789	72	80	88	93	82	92
2842	Polishes and sanitation goods:								
	1963	1,075	757,179	34	44	58	73	82	72
2843	Surface active agents:								
	1963	137	177,821	39	50	67	86	80	47
2844	Toilet preparations:								
	1963	673	1,792,662	38	52	75	90	91	84
	1958	721	997,170	29	45	70	87	92	83
	1954	693	628,651	25	40	64	(NA)	91	77
	1947	692	381,376	24	38	59	(NA)	84	72
	1935	(NA)	(NA)	25	40	(NA)	(NA)	(NA)	(NA)
2851	Paints and allied products:								
	1963	1,579	2,456,361	23	34	47	60	95	96
2861	Gum and wood chemicals:								
	1963	229	212,850	63	71	83	94	74	77
2871	Fertilizers:								
	1963	144	869,213	34	55	81	96	89	97
	1958	157	543,319	34	57	81	93	(NA)	(NA)
	1954	126	533,448	36	59	82	(NA)	97	60
	1947	81	312,229	36	56	82	(NA)	92	60
2872	Fertilizers, mixing only:								
	1963	537	623,070	20	31	48	64	94	96
	1958	514	355,095	18	28	47	64	(NA)	(NA)
	1954	437	329,328	20	29	46	(NA)	95	44
	1947	377	193,318	18	28	47	(NA)	49	47
2879	Agricultural chemicals, n.e.c.:								
	1963	241	476,661	33	51	70	86	87	69
2891	Glue and gelatin:								
	1963	294	351,680	28	44	64	82	83	72
2892	Explosives:								
	1963	41	283,298	72	86	99	100	88	94
	1958	45	222,519	77	89	98	100	98	96
	1954	40	389,638	79	92	99	100	98	91
	1947	35	136,356	80	89	98	100	87	99
2893	Printing ink:								
	1963	216	268,012	48	63	77	90	93	92
	1958	193	223,632	53	65	78	91	91	97
	1954	188	180,638	54	65	79	(NA)	90	95
	1947	151	115,708	57	69	81	(NA)	92	78
	1935	(NA)	(NA)	49	60	(NA)	(NA)	(NA)	(NA)
2895	Carbon black:								
	1963	8	149,122	72	100	(X)	(X)	(D)	(D)
2899	Chemical products, n.e.c.:								
	1963	1,312	931,691	21	30	45	63	82	71

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2]	Value of shipments[3]					Primary product specialization ratio[5]	Coverage ratio[6]
			Total	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies		
		(number)	($1,000)					(percent)	(percent)
	GROUP 29. PETROLEUM AND COAL PRODUCTS								
2911	Petroleum refining:								
	1963	266	16,496,896	34	56	82	95	98	[44]97
	1958	289	14,106,250	32	55	82	94	98	[44]98
	1954	253	11,757,218	33	56	84	(NA)	99	[44]98
	1947	277	6,623,708	37	59	83	(NA)	99	[44]97
	1935	(NA)	(NA)	38	58	(NA)	(NA)	(NA)	(NA)
2951	Paving mixtures and blocks:								
	1963	528	427,460	15	21	35	51	92	89
	1958	415	255,346	11	17	31	51	93	89
	1954	252	126,561	15	24	42	(NA)	97	94
	1947	182	50,977	19	30	45	(NA)	99	88
	1935	(NA)	(NA)	48	63	(NA)	(NA)	(NA)	(NA)
2952	Asphalt felts and coatings:								
	1963	126	527,632	37	66	85	97	90	92
	1958	120	420,741	37	64	86	97	90	92
	1954	108	400,826	39	67	89	(NA)	91	94
	1947	104	338,219	42	65	87	(NA)	95	95
	1935	(NA)	(NA)	42	68	(NA)	(NA)	(NA)	(NA)
2992	Lubricating oils and greases:								
	1963	311	471,229	36	48	65	80	91	[45]33
	1958	284	260,206	29	44	63	80	83	[45]25
	1954	265	224,216	28	42	61	(NA)	87	18
	1947	205	169,324	36	48	66	(NA)	89	19
2999	Petroleum and coal products, n.e.c.:								
	1963	59	71,525	70	84	96	99+	96	91
	1958	74	67,839	63	72	89	99	95	96
	1954	39	58,486	58	72	95	100	94	89
	1947	([19])	[46]47,491	([19])	([19])	([19])	([19])	([19])	([19])
	GROUP 30. RUBBER AND PLASTICS PRODUCTS, N.E.C.								
3011	Tires and inner tubes:								
	1963	105	2,949,673	70	89	97	99+	(D)	99
3021	Rubber footwear:								
	1963	44	354,239	62	77	94	100	93	90
	1958	22	219,001	65	82	(D)	100	88	90
	1954	19	166,367	72	87	100	(X)	84	85
	1947	20	198,691	81	93	100	(X)	80	99
	1935	(NA)	(NA)	81	100	(NA)	(NA)	(NA)	(NA)
3031	Reclaimed rubber:								
	1963	7	48,879	93	100	(X)	(X)	(D)	77
	1958	12	37,603	87	97	100	(X)	94	74
	1954	15	38,996	73	94	100	(X)	87	74
	1947	14	17,263	84	96	100	(X)	95	44
3069	Rubber products, n.e.c.:								
	1963	1,046	2,597,999	23	35	49	65	86	89
3079	Plastics products, n.e.c.:								
	1963	4,101	3,165,440	8	21	20	31	92	80

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2]	Value of shipments[3]					Primary product specialization ratio[5]	Coverage ratio[6]
			Total	Percent accounted for by[4]--					
				4 largest companies	8 largest companies	20 largest companies	50 largest companies		
		(number)	($1,000)					(percent)	(percent)
		GROUP 31. LEATHER AND LEATHER PRODUCTS							
3111	Leather tanning and finishing:								
	1963	482	758,408	18	30	47	70	99	100
	1958	520	732,430	18	30	47	68	100	100
	1954	525	706,174	18	28	45	(NA)	98	100
	1947	500	1,070,267	27	39	55	(NA)	100	100
	1935	(NA)	(NA)	22	34	(NA)	(NA)	(NA)	(NA)
3121	Industrial leather belting:								
	1963	81	51,869	67	77	89	98	89	84
	1958	98	61,767	70	79	88	97	90	92
	1954	128	62,165	67	74	84	(NA)	97	92
	1947	178	57,403	44	57	74	(NA)	91	98
	1935	(NA)	(NA)	39	53	(NA)	(NA)	(NA)	(NA)
3131	Footwear cut stock:								
	1963	414	229,253	20	27	40	60	93	94
	1958	472	242,972	19	29	41	58	95	95
	1954	522	246,373	22	32	44	(NA)	97	96
	1947	544	294,309	30	41	55	(NA)	99	97
	1935	(NA)	(NA)	32	42	(NA)	(NA)	(NA)	(NA)
3141	Shoes, except rubber:[21]								
	1963	785	2,251,132	25	32	43	57	99	99
	1958	871	2,026,200	27	34	43	55	99	99
	1954	970	1,790,717	30	36	45	(NA)	99	99
	1947	1,077	1,726,609	28	35	45	(NA)	99	100
3142	House slippers:[21]								
	1963	149	123,560	20	34	58	84	90	85
	1958	159	111,004	18	30	56	83	90	85
	1954	170	90,466	19	31	54	(NA)	89	87
	1947	(19)	67,388	(19)	(19)	(19)	3	(19)	(19)
3151	Leather gloves:								
	1963	160	80,640	22	34	57	84	81	89
3161	Luggage:								
	1963	377	210,303	31	40	55	73	95	94
3171	Handbags and purses:								
	1963	539	280,343	11	18	31	51	98	98
	1958	613	227,415	10	15	27	48	96	98
	1954	710	188,782	8	14	26	(NA)	97	98
	1947	725	163,306	7	13	23	(NA)	99	97
3172	Small leather goods:								
	1963	325	159,013	31	45	60	78	96	92
3199	Leather goods, n.e.c.:								
	1963	365	67,058	17	26	44	66	94	82
	1958[47]	429	54,383	14	21	(NA)	(NA)	96	84
		GROUP 32. STONE, CLAY, AND GLASS PRODUCTS							
3211	Flat glass:								
	1963	11	549,390	94	99+	100	(X)	(D)	(D)
	1958	13	382,680	92	99	100	(X)	(D)	(D)
	1954	16	370,503	90	99	100	(X)	90	(D)
	1947	(19)	223,715	(19)	(19)	(19)	(19)	(19)	(19)
3221	Glass containers:								
	1963	40	1,004,464	55	72	92	100	99	99
	1958	42	855,787	58	75	93	100	99	99
	1954	38	635,121	63	78	92	100	98	99
	1947	41	422,614	63	79	93	100	(D)	(D)

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2]	Value of shipments[3]					Primary product specialization ratio[5]	Coverage ratio[6]
			Total	Percent accounted for by[4]--					
				4 largest companies	8 largest companies	20 largest companies	50 largest companies		
		(number)	($1,000)					(percent)	(percent)
		GROUP 32. STONE, CLAY, AND GLASS PRODUCTS—Continued							
3229	Pressed and blown glass, n.e.c.:								
	1963	75	630,945	68	81	93	99	96	97
	1958	111	440,966	64	79	90	96	98	98
	1954	255	411,322	67	77	88	(NA)	98	96
	1947	107	234,795	51	65	80	(NA)	96	91
3231	Products of purchased glass:								
	1963	1,016	627,327	43	49	59	70	(D)	(D)
3241	Cement, hydraulic:								
	1963	55	1,176,913	29	49	82	99+	99	100
	1958	62	1,069,443	32	50	78	99	99	100
	1954	67	811,125	31	48	73	(NA)	99	100
	1947	73	408,928	30	45	70	(NA)	100	100
	1935	(NA)	(NA)	29	44	(NA)	(NA)	(NA)	(NA)
3251	Brick and structural tile:								
	1963	401	325,093	12	19	33	54	98	98
	1958	471	278,516	12	20	33	50	96	98
	1954	510	250,411	13	20	34	(NA)	96	98
	1947	574	144,497	10	17	30	(NA)	95	97
3253	Ceramic wall and floor tile:								
	1963	71	164,668	49	69	88	99+	95	99
3255	Clay refractories:								
	1963	80	192,230	41	60	83	98	91	93
	1958	104	157,459	43	61	81	95	93	95
	1954	113	136,369	43	60	79	(NA)	92	95
	1947	108	109,260	41	57	76	(NA)	93	94
3259	Structural clay products, n.e.c.:								
	1963	126	159,724	36	55	79	94	89	95
3261	Vitreous plumbing fixtures:								
	1963	34	155,658	57	78	98	100	97	97
	1958	35	130,846	54	75	96	100	97	97
	1954	25	116,267	65	84	99	100	99	99
	1947	26	68,093	58	82	99+	100	98	99
3262	Vitreous china food utensils:								
	1963	26	50,954	69	88	99+	100	[48]90	91
	1958	r26	r47,306	r60	80	99	100	96	96
	1954	32	44,478	55	73	97	100	95	96
	1947	26	43,196	56	75	99	100	97	97
3263	Fine earthenware food utensils:								
	1963	20	r59,046	57	83	100	(X)	92	91
	1958	r29	r49,352	43	r69	r98	100	98	r91
	1954	46	66,421	37	57	88	100	98	92
	1947	74	72,054	38	57	87	(NA)	92	97
3264	Porcelain electrical supplies:								
	1963	74	131,790	46	67	88	99+	91	95
	1958	57	92,627	46	68	39	99	92	93
	1954	42	77,896	46	70	92	100	94	87
	1947	47	71,484	44	64	90	100	89	93
3269	Pottery products, n.e.c.:[49]								
	1963	449	95,541	32	41	58	75	87	89
3271	Concrete block and brick:								
	1963	1,786	505,194	5	7	12	22	92	84
3272	Other concrete products:								
	1963	3,130	925,677	17	23	32	42	94	94

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2] (number)	Value of shipments[3] Total ($1,000)	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies	Primary product specialization ratio[5] (percent)	Coverage ratio[6] (percent)
		GROUP 32. STONE, CLAY, AND GLASS PRODUCTS—Continued							
3273	Ready mixed concrete:[50]								
	1963	3,999	2,292,504	4	7	13	22	92	98
	1958	3,104	1,559,272	4	7	13	21	94	97
3274	Lime:								
	1963	81	164,366	37	56	82	99	82	94
	1958	94	129,688	38	57	80	98	84	95
	1954	113	109,226	35	53	80	(NA)	84	97
	1947	132	72,842	30	47	69	(NA)	93	97
3275	Gypsum products:								
	1963	60	425,108	84	97	99+	99+	97	98
	1958	72	350,565	88	96	98	99	97	98
	1954	48	282,177	90	97	99	100	95	98
	1947	33	127,543	85	94	99+	100	97	98
3281	Cut stone and stone products:								
	1963	857	217,176	20	28	38	51	94	99
	1958	959	198,526	16	24	32	44	96	97
	1954	961	181,784	12	21	30	(NA)	93	99
	1947	629	67,253	8	13	21	(NA)	100	98
3291	Abrasive products:								
	1963	340	704,212	58	67	77	88	(D)	95
	1958	318	466,632	58	68	77	88	83	96
	1954	290	332,512	50	58	71	(NA)	94	87
	1947	236	225,399	49	56	72	(NA)	94	86
	1935	(NA)	(NA)	67	74	(NA)	(NA)	(NA)	(NA)
3292	Asbestos products:								
	1963	73	509,236	56	76	95	99+	95	91
	1958	69	433,314	59	76	95	99	89	92
	1954	74	346,206	60	77	(51)	(51)	87	93
	1947	85	206,167	(51)	(51)	(51)	(51)	87	90
3293	Gaskets and insulations:								
	1963	282	297,226	35	47	64	82	81	78
	1958	271	170,881	25	36	58	79	87	69
	1954	227	153,402	33	47	68	(NA)	86	70
	1947	174	120,093	42	59	80	(NA)	83	75
	1935	(NA)	(NA)	46	62	(NA)	(NA)	(NA)	(NA)
3295	Minerals, ground or treated:								
	1963	313	204,393	24	38	59	79	94	86
3296	Mineral wool:								
	1963	89	391,873	67	83	95	99	90	96
3297	Nonclay refactories:								
	1963	51	250,195	49	66	91	(D)	94	88
3299	Nonmetallic products, n.e.c.:								
	1963	313	96,188	37	48	66	82	86	96
		GROUP 33. PRIMARY METAL INDUSTRIES							
3312	Blast furnaces and steel mills:								
	1963	162	r 7,699,535	r51	69	r85	97	(52)	(52)
	1958	148	5,980,031	53	70	84	96	(52)	(52)
	1954[53]	(NA)	5,014,389	55	71	86	(NA)	(NA)	(NA)
	1947[53]	(NA)	2,844,595	50	66	81	(NA)	(NA)	(NA)
3313	Electrometallurgical products:								
	1963	20	382,132	79	95	100	(X)	(85-90)	5477
	1958	19	397,265	73	91	100	(X)	96	5476
	1954	17	271,767	77	93	100	(X)	92	5468
	1947	10	150,904	88	(D)	100	(X)	88	(54)

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2] (number)	Value of shipments[3] Total ($1,000)	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies	Primary product specialization ratio[5] (percent)	Coverage ratio[6] (percent)
		GROUP 33. PRIMARY METAL INDUSTRIES—Continued							
3315	Steel wire drawing, etc.:								
	1963	171	592,263	28	39	59	85	89	30
3316	Cold finishing of steel shapes:								
	1963	59	751,627	36	55	82	99+	94	20
3317	Steel pipe and tube:								
	1963	114	809,009	27	42	71	93	91	37
3321	Gray-iron foundries:[55]								
	1963	1,062	1,984,944	28	37	51	65	93	88
	1958	1,199	1,406,352	24	33	47	61	95	87
	1954	1,321	1,418,947	26	34	46	(NA)	94	87
	1947	1,554	1,173,039	16	24	35	(NA)	92	87
3322	Malleable iron foundries:								
	1963	76	317,528	46	58	76	96	87	87
	1958	73	210,785	42	56	73	96	87	90
	1954	71	212,354	50	59	76	(NA)	86	89
	1947	68	184,400	35	48	69	(NA)	88	91
3323	Steel foundries:								
	1963	222	871,048	23	36	56	79	85	89
	1958	209	590,703	25	37	56	77	86	86
	1954	207	534,718	21	34	53	(NA)	88	87
	1947	177	403,175	23	36	57	(NA)	89	83
3331	Primary copper:								
	1963	13	[7]285,510	78	98	100	(X)	[56]	[56]
	1958	11	[7]161,682	87	99	100	(X)	[56]	[56]
	1954	10	[7]163,664	[57]	[57]	[57]	[57]	[57]	[57]
	1947	[19]	[7]93,196	[19]	[19]	[19]	[19]	[19]	[19]
3332	Primary lead:								
	1963	6	[7]24,876	(D)	100	(X)	(X)	[56]	[56]
	1958	5	[7]24,428	(D)	100	(X)	(X)	[56]	[56]
	1954	5	[7]30,772	(D)	100	(X)	(X)	[56]	[56]
	1947	6	[7]35,902	(D)	100	(X)	(X)	[56]	[56]
3333	Primary zinc:								
	1963	11	281,537	57	90	100	(X)	92	[58]81
	1958	11	203,363	62	93	100	(X)	90	[58]76
	1954	13	230,515	56	87	100	(X)	87	[58]
	1947	14	190,996	53	82	100	(X)	(NA)	[58]
3334	Primary aluminum:								
	1963	7	1,089,977	(D)	100	(X)	(X)	100	[59]75
	1958	6	801,730	(D)	100	(X)	(X)	100	[59]76
	1954	3	604,076	100	(X)	(X)	(X)	100	[59]78
	1947	3	161,016	100	(X)	(X)	(X)	100	[59]
3339	Primary nonferrous metals, n.e.c.:								
	1963	33	212,176	61	78	96	100	83	[60]39
	1958	24	96,480	62	86	99	100	92	[60]24
	1954	[57]	[57]	[57]	[57]	[57]	[57]	[57]	[57]
	1947	[19]	24,253	[19]	[19]	[19]	[19]	[19]	[19]
3341	Secondary nonferrous metals:								
	1963	406	1,045,522	29	42	58	75	94	[61]26
	1958	349	648,157	26	41	59	76	93	[61]30
	1954	[57]	[57]	[57]	[57]	[57]	[57]	[57]	[57]
	1947	[19]	[19]	[19]	[19]	[19]	[19]	[19]	[19]

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2] (number)	Value of shipments[3] Total ($1,000)	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies	Primary product specialization ratio[5] (percent)	Coverage ratio[6] (percent)
		GROUP 33. PRIMARY METAL INDUSTRIES—Continued							
3351	Copper rolling and drawing:								
	1963	81	1,657,526	45	67	87	99	90	91
3352	Aluminum rolling and drawing:								
	1963	168	2,196,439	68	79	87	95	85	[62]93
3356	Rolling and drawing, n.e.c.:								
	1963	108	640,962	46	66	86	97	84	[63]81
	1958	120	467,639	43	64	84	97	77	[63]82
	1954	(57)	(57)	(57)	(57)	(57)	(57)	(57)	(57)
	1947	(19)	(19)	(19)	(19)	(19)	(19)	(19)	(19)
3357	Nonferrous wire drawing, etc.:								
	1963	211	2,117,943	44	62	79	92	91	[64]86
3361	Aluminum castings:								
	1963	926	640,193	33	40	50	64	81	83
3362	Brass, bronze, copper castings:								
	1963	535	287,534	18	27	44	61	84	78
3369	Nonferrous casting, n.e.c.:								
	1963	386	302,731	18	26	44	66	78	75
3391	Iron and steel forgings:								
	1963	r252	r868,948	r30	r39	56	r77	r89	[65]69
	1958	r287	r675,356	r31	r39	56	r76	r86	r[65]72
	1954	247	595,434	27	38	59	(NA)	88	73
	1947	240	370,097	24	35	54	(NA)	95	77
	1935	(NA)	(NA)	21	32	(NA)	(NA)	(NA)	(NA)
3392	Nonferrous forgings:								
	1963	33	165,146	84	91	99	100	69	55
3399	Primary metal industries, n.e.c.:								
	1963	693	284,661	17	28	41	55	93	87
3411	Metal cans:								
	1963	99	2,075,014	74	85	95	99	97	98
	1958	84	1,803,672	80	89	97	99	95	96
	1954	[66]109	1,366,766	80	88	96	(NA)	98	99
	1947	102	678,924	78	86	94	(NA)	97	99
	1935	(NA)	(NA)	80	85	(NA)	(NA)	(NA)	(NA)
3421	Cutlery:								
	1963	156	283,352	66	76	87	96	89	97
	1958	181	176,819	53	65	78	92	91	96
	1954	179	169,750	49	61	77	(NA)	88	96
	1947	192	142,571	41	54	73	(NA)	93	94
3423	Hand and edge tools:								
	1963	681	565,590	21	34	52	72	87	84
	1958[67]	(NA)	402,400	19	30	(NA)	(NA)	(NA)	(NA)
3425	Hand saws and saw blades:								
	1963	70	102,782	48	66	90	99	78	85
	1958	82	84,815	49	66	89	98	82	90
	1954	95	83,682	56	70	89	(NA)	71	90
	1947	81	70,430	66	75	90	(NA)	78	87
	1935	(NA)	(NA)	63	76	(NA)	(NA)	(NA)	(NA)
3429	Hardware, n.e.c.:								
	1963	1,025	1,785,134	39	45	57	70	91	93

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2] (number)	Value of shipments[3] Total ($1,000)	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies	Primary product specialization ratio[5] (percent)	Coverage ratio[6] (percent)
		GROUP 34. FABRICATED METAL PRODUCTS—Continued							
3431	Metal plumbing fixtures:								
	1963	75	234,896	49	68	91	99	84	91
3432	Plumbing fixtures, brass goods:								
	1963	247	333,832	30	41	60	83	90	83
3433	Heating equipment, except electric:								
	1963	611	1,019,787	16	27	45	66	76	81
3441	Fabricated structural steel:								
	1963	1,636	1,916,048	15	20	28	41	86	89
3442	Metal doors, sash, and trim:								
	1963	1,712	1,253,814	8	13	23	38	88	94
3443	Boiler shop products:								
	1963	1,301	1,622,988	25	34	48	59	89	93
3444	Sheetmetal work:								
	1963	3,139	1,303,670	11	16	24	35	88	78
	1958	3,066	973,769	15	20	27	39	88	83
	1954	2,363	738,481	19	28	36	(NA)	81	80
	1947	1,665	420,525	21	29	38	(NA)	83	82
	1935	(NA)	(NA)	17	26	(NA)	(NA)	(NA)	(NA)
3446	Architectural metal work:								
	1963	1,326	269,256	13	19	32	50	86	71
3449	Miscellaneous metal work, n.e.c.:								
	1963	649	704,166	25	35	53	71	89	68
3451	Screw machine products:								
	1963	1,861	588,981	5	8	15	26	97	90
	1958	1,784	415,301	9	12	19	30	95	86
	1954	1,791	401,449	11	15	23	(NA)	93	82
	1947	1,205	222,015	17	20	29	(NA)	94	86
3452	Bolts, nuts, rivets, and washers:								
	1963	504	1,218,247	18	27	47	68	92	90
	1958	470	844,511	17	27	45	67	88	89
	1954	421	699,523	15	25	45	(NA)	91	89
	1947	339	463,752	20	31	52	(NA)	92	86
3461	Metal stampings:								
	1963	2,491	2,678,996	13	19	29	43	84	86
	1958[68]	(NA)	2,020,528	12	18	(NA)	(NA)	85	85
3471	Plating and polishing:								
	1963	2,968	517,572	5	8	14	22	(69)	(69)
	1958	2,588	353,472	5	7	12	21	(69)	(69)
	1954	2,423	304,352	10	13	20	(NA)	(69)	(69)
	1947	1,789	180,676	15	20	28	(NA)	(69)	(69)
	1935	(NA)	(NA)	12	17	(NA)	(NA)	(NA)	(NA)
3479	Metal coating, engraving, etc:								
	1963	1,227	322,139	17	26	39	54	(69)	(69)
	1958[70]	986	194,447	21	28	(NA)	(NA)	(69)	(69)
3481	Fabricated wire products, n.e.c.:								
	1963	1,464	1,030,876	13	19	31	46	93	[71]65
	1958	1,373	836,936	13	22	33	48	93	[71]62
	1954	1,205	744,766	18	26	40	(NA)	89	63
	1947	853	465,973	20	31	48	(NA)	91	60
	1935	(NA)	(NA)	23	35	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2] (number)	Value of shipments[3] Total ($1,000)	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies	Primary product specialization ratio[5] (percent)	Coverage ratio[6] (percent)
		GROUP 34. FABRICATED METAL PRODUCTS—Continued							
3491	Metal barrels, drums and pails:								
	1963	95	303,243	40	56	77	97	92	86
3492	Safes and vaults:								
	1963	28	78,012	(D)	(D)	99+	100	81	90-95
	1958	31	57,263	91	95	99+	100	78	97
	1954	25	40,029	90	96	99+	100	87	97
	1947	26	29,216	85	94	99+	100	98	98
	1935	(NA)	(NA)	84	97	(NA)	(NA)	(NA)	(NA)
3493	Steel springs:								
	1963	91	157,704	44	63	85	98	91	67
3494	Valves and pipe fittings:								
	1963	580	1,588,509	13	22	41	62	86	85
	1958	535	1,196,498	17	27	46	66	87	88
	1954	523	959,012	17	27	47	(NA)	75	86
	1947	436	633,771	24	32	50	(NA)	82	90
3496	Collapsible tubes:								
	1963	18	51,027	58	92	100	(X)	88	100
	1958	18	41,424	54	86	100	(X)	91	100
	1954	19	36,893	52	82	100	(X)	93	100
	1947	19	26,997	53	81	100	(X)	91	100
	1935	(NA)	(NA)	52	79	(NA)	(NA)	(NA)	(NA)
3497	Metal foil and leaf:								
	1963	56	180,567	61	78	92	99+	91	100
3498	Fabricated pipe and fittings:								
	1963	328	305,640	17	28	48	71	92	91
	1958	269	296,617	24	39	55	75	90	92
	1954	237	225,902	27	42	62	(NA)	92	88
	1947	206	115,976	22	36	59	(NA)	82	83
3499	Fabricated metal products, n.e.c.:								
	1963	1,254	573,185	16	22	34	49	89	62
	1958	962	316,138	19	29	42	59	88	62
	1954	1,017	237,815	18	29	43	(NA)	85	53
	1947	430	73,205	31	43	58	(NA)	90	60
		GROUP 35. MACHINERY							
3511	Steam engines and turbines:								
	1963	17	616,416	93	98	100	(X)	85	82
3519	Internal combustion engines:								
	1963	120	1,473,574	49	65	89	99	86	86
3522	Farm machinery and equipment:								
	1963	1,481	2,842,243	43	55	67	77	89	95
3531	Construction machinery:								
	1963	561	2,696,039	42	53	70	84	91	89
3532	Mining machinery and equipment:								
	1963	198	417,616	35	53	74	91	75	82
3533	Oilfield machinery:								
	1963	373	666,532	25	37	57	80	90	91

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2]	Value of shipments[3]					Primary product specialization ratio[5]	Coverage ratio[6]
			Total	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies		
		(number)	($1,000)					(percent)	(percent)
		GROUP 35. MACHINERY—Continued							
3534	Elevators and moving stairways:								
	1963	126	318,616	62	73	85	95	97	95
	1958	135	189,406	62	71	82	93	97	80
	1954	127	161,024	66	74	83	(NA)	87	89
	1947	108	101,815	63	73	84	(NA)	92	91
3535	Conveyors:								
	1963	428	494,632	28	39	60	78	82	83
3536	Hoists, cranes, and monorails:								
	1963	120	220,015	36	53	79	95	80	70
3537	Industrial trucks and tractors:								
	1963	304	446,957	54	64	77	88	90	81
	1958	251	255,022	52	64	77	88	92	84
	1954	234	245,110	50	62	77	(NA)	88	83
	1947	191	162,151	57	69	81	(NA)	84	84
3541	Metal-cutting machine tools:								
	1963	784	1,060,818	20	32	52	74	81	88
	1958	608	684,833	21	32	52	74	82	90
	1954	627	1,146,932	19	29	52	(NA)	84	93
	1947	312	493,853	20	30	50	(NA)	77	86
3542	Metal-forming machine tools:								
	1963	362	441,419	22	39	61	80	86	79
3544	Special dies and tools:								
	1963	5,850	1,388,794	6	9	14	21	93	72
3545	Machine tool accessories:								
	1963	983	787,338	17	29	46	63	83	84
3548	Metalworking machinery, n.e.c.:								
	1963	420	796,327	25	40	64	85	85	88
3551	Food products machinery:								
	1963	649	640,507	22	33	47	65	86	87
	1958	657	429,530	16	27	43	61	86	84
	1954	650	404,261	16	29	46	(NA)	84	86
	1947	605	327,681	18	27	43	(NA)	89	82
3552	Textile machinery:								
	1963	529	542,684	35	52	67	80	93	94
	1958	507	363,178	34	49	64	79	87	94
	1954	517	336,785	32	46	63	(NA)	89	93
	1947	470	403,385	30	44	59	(NA)	95	93
	1935	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3553	Woodworking machinery:								
	1963	245	252,762	35	48	65	83	80	83
	1958	251	204,716	39	52	69	85	79	86
	1954	247	167,160	37	52	72	(NA)	84	81
	1947	(19)	153,355	(19)	(19)	(19)	(19)	(19)	(19)
3554	Paper industries machinery:								
	1963	204	403,925	41	53	74	92	88	90
	1958	192	292,443	47	58	78	92	93	90
	1954	163	196,635	34	46	69	(NA)	85	86
	1947	144	151,085	28	42	66	(NA)	85	89

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2]	Value of shipments[3]					Primary product specialization ratio[5]	Coverage ratio[6]
			Total	Percent accounted for by[4]--					
				4 largest companies	8 largest companies	20 largest companies	50 largest companies		
		(number)	($1,000)					(percent)	(percent)
		GROUP 35. MACHINERY—Continued							
3555	Printing trades machinery:								
	1963	463	448,398	44	53	68	83	95	93
	1958	421	279,102	42	53	68	82	97	92
	1954	342	248,719	38	57	73	(NA)	95	90
	1947	300	199,362	31	48	70	(NA)	95	94
	1935	(NA)	(NA)	32	47	(NA)	(NA)	(NA)	(NA)
3559	Special industry machinery, n.e.c.:								
	1963	r1,074	r1,015,014	r11	r19	r36	r58	83	73
3561	Pumps and compressors:								
	1963	589	1,419,081	26	36	55	75	85	86
3562	Ball and roller bearings:								
	1963	93	998,784	57	76	91	99	r97	r98
	1958	85	638,923	57	77	92	99	r97	r98
	1954	83	537,151	60	79	92	(NA)	98	98
	1947	78	365,584	62	79	93	(NA)	94	96
3564	Blowers and fans:								
	1963	225	315,285	27	43	67	88	r83	r79
	1958	197	250,530	28	43	66	86	r83	r79
	1954	208	261,825	31	49	68	(NA)	83	76
	1947	187	140,716	39	54	72	(NA)	75	78
3565	Industrial patterns:								
	1963	1,206	140,696	9	14	24	37	96	80
3566	Power transmission equipment:								
	1963	498	888,641	24	36	57	75	84	79
3567	Industrial furnaces and ovens:								
	1963	r229	r279,058	r28	r42	r62	r84	84	79
3569	General industry machines, n.e.c.:								
	1963	754	691,280	22	30	46	63	82	86
3571	Computing and related machines:								
	1963	213	2,019,714	67	80	92	98	93	94
3572	Typewriters:								
	1963	17	315,385	76	99	100	(X)	85	99
	1958	15	230,116	79	99	100	(X)	82	7299
	1954	15	173,439	83	99	100	(X)	80	97
	1947	23	153,924	79	96	100	(X)	7290	7297
	1935	(NA)	(NA)	(NA)	99	(NA)	(NA)	(NA)	(NA)
3576	Scales and balances:								
	1963	81	98,491	50	69	88	99	92	97
3579	Office machines, n.e.c.:								
	1963	158	349,210	59	71	85	96	81	79
3581	Automatic vending machines:								
	1963	148	238,000	55	72	84	95	81	90
3582	Commercial laundry equipment:								
	1963	107	136,757	47	57	77	96	r91	r89
	1958	113	111,745	51	66	83	96	r94	r95
	1954	101	88,065	51	67	81	(NA)	83	93
	1947	119	4,361	59	69	81	(NA)	94	94

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2] (number)	Value of shipments[3] Total ($1,000)	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies	Primary product specialization ratio[5] (percent)	Coverage ratio[6] (percent)
		GROUP 35. MACHINERY—Continued							
3585	Refrigeration machinery:								
	1963	655	[7]892,686	25	39	58	77	(56)	(56)
3586	Measuring and dispensing pumps:								
	1963	42	159,487	46	80	97	100	73	85
	1958	32	110,473	52	85	99	100	66	90
	1954	(57)	104,400	(57)	(57)	(57)	(57)	(57)	(57)
	1947	51	125,052	49	76	97	(D)	76	98
3589	Service industry machines, n.e.c.:								
	1963	496	378,300	14	26	46	67	86	84
3599	Miscellaneous machinery:								
	1963	12,032	2,036,299	8	12	20	27	90	90
		GROUP 36. ELECTRICAL MACHINERY							
3611	Electrical measuring instruments:								
	1963	536	749,220	34	47	65	81	84	78
3612	Transformers:								
	1963	144	722,896	68	79	93	98	r92	94
	1958	153	639,067	71	84	94	98	r94	93
	1954	152	686,087	78	89	95	(NA)	87	94
	1947	134	356,968	73	84	93	(NA)	85	91
3613	Switchgear and switchboards:								
	1963	338	1,093,743	51	65	79	89	87	89
3621	Motors and generators:								
	1963	316	1,709,818	50	59	73	88	r81	r84
	1958	317	1,359,716	47	56	72	88	r83	r88
	1954	266	1,389,078	50	59	75	(NA)	82	84
	1947	224	995,640	59	66	80	(NA)	81	92
3622	Industrial controls:								
	1963	r421	648,683	56	69	81	90	79	79
3623	Electric welding apparatus:								
	1963	133	330,227	41	54	79	94	93	89
	1958	123	234,666	39	52	78	95	93	92
	1954	111	168,846	39	52	76	(NA)	90	92
	1947	103	103,712	46	58	79	(NA)	93	89
3624	Carbon and graphite products:								
	1963	40	226,889	83	92	98	100	93	96
	1958	34	154,452	87	92	99	100	97	95
	1954	43	111,010	86	93	98	100	98	94
	1947	36	68,745	87	93	99	100	95	95
3629	Electric industrial goods, n.e.c.:								
	1963	226	238,825	38	51	67	84	80	72
3631	Household cooking equipment:								
	1963	77	473,453	51	68	88	99+	87	72
3632	Household refrigerators:								
	1963	31	1,306,539	74	91	99+	100	66	99

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2] (number)	Value of shipments[3] Total ($1,000)	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies	Primary product specialization ratio[5] (percent)	Coverage ratio[6] (percent)
	GROUP 36. ELECTRICAL MACHINERY—Continued								
3633	Household laundry equipment:								
	1963	31	760,161	78	95	99+	100	89	r87
	1958	34	722,189	71	90	99	100	91	r91
	1954	48	527,535	68	85	99	100	93	81
	1947	59	442,297	40	65	91	(NA)	90	91
	1935	(NA)	(NA)	56	79	(NA)	(NA)	(NA)	(NA)
3634	Electric housewares and fans:								
	1963	286	850,281	41	59	78	92	87	81
3635	Household vacuum cleaners:								
	1963	34	175,357	81	96	99	100	87	80
3636	Sewing machines:								
	1963	83	117,157	(D)	93	97	99+	90-95	96
	1958	80	95,420	(D)	93	97	99	97	94
	1954	78	112,029	81	91	96	(NA)	91	94
	1947	69	97,011	77	87	97	(NA)	95	94
	1935	(NA)	(NA)	78	90	(NA)	(NA)	(NA)	(NA)
3639	Household appliances, n.e.c.:								
	1963	101	435,458	41	61	86	98	79	79
3641	Electric lamps:								
	1963	[66]52	574,522	92	96	99	(D)	r95	r96
	1958	35	409,471	92	97	99+	100	r94	r98
	1954	35	326,343	93	97	99+	100	94	99
	1947	35	203,248	92	96	99+	100	94	100
3642	Lighting fixtures:								
	1963	1,203	1,159,497	17	26	38	54	r93	r93
	1958	1,180	798,491	16	23	33	49	r89	r92
	1954	1,211	641,569	20	28	39	(NA)	90	r90
	1947	1,198	465,422	18	26	39	(NA)	90	89
3643	Current carrying devices:								
	1963	431	615,980	28	44	64	82	80	83
3644	Noncurrent carrying devices:								
	1963	168	479,033	22	39	66	91	77	80
3651	Radio and TV receiving sets:								
	1963	322	2,254,878	41	62	82	94	91	96
3652	Phonograph records:								
	1963	157	180,173	69	75	85	94	r99	97
	1958	85	138,629	76	83	90	98	r97	98
	1954	135	84,656	70	80	88	(NA)	94	97
	1947	96	110,184	79	87	94	(NA)	96	99
3661	Telephone; telegraph apparatus:								
	1963	65	[71],013,792	92	96	99	100	([56])	([56])
	1958	44	[71]749,722	92	97	99+	100	([56])	([56])
	1954	56	[71]497,829	90	95	(NA)	(NA)	([56])	([56])
	1947	50	[71]384,417	([73])	([73])	([73])	([73])	([56])	([56])
3662	Radio, TV communications equipment:								
	1963	1,001	7,145,600	29	45	69	84	88	91
3671	Electron tubes, receiving type:								
	1963	30	321,091	87	99	99+	100	89	95
3672	Cathode ray picture tubes:								
	1963	148	269,122	91	95	97	99	85-90	90

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2]	Value of shipments[3]					Primary product specialization ratio[5]	Coverage ratio[6]
			Total	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies		
		(number)	($1,000)					(percent)	(percent)
		GROUP 36. ELECTRICAL MACHINERY--Continued							
3673	Electron tubes, transmitting:								
	1963	45	299,527	52	77	96	100	80	75
3674	Semiconductors:								
	1963	86	687,817	46	65	90	99	88	92
3679	Electronic components, n.e.c.:								
	1963	1,743	2,332,215	13	21	35	54	89	78
3691	Storage batteries:								
	1963	183	516,457	59	78	92	97	98	r99
	1958	206	366,584	64	81	91	96	99	r100
	1954	244	341,374	64	80	90	(NA)	100	100
	1947	205	297,654	62	78	87	(NA)	90	99
3692	Primary batteries, dry and wet:								
	1963	26	195,298	89	98	99+	100	96	91
	1958	24	134,930	84	95	99+	100	99	98
	1954	20	121,831	78	93	100	(X)	98	98
	1947	23	85,045	76	95	r99+	100	7290	7298
3693	X-ray apparatus and tubes:								
	1963	63	143,706	67	79	93	99+	83	80
	1958	126	77,236	63	74	87	96	85	82
	1954	129	79,943	51	69	87	(NA)	81	91
	1947	114	59,518	58	75	90	(NA)	94	93
3694	Engine electrical equipment:								
	1963	163	r900,663	r69	r79	r88	r97	93	81
	1958	147	r565,723	r66	r78	r91	r95	81	85
	1954	154	587,124	62	83	90	(NA)	85	87
	1947	100	357,799	67	81	93	(NA)	89	91
3699	Electrical products, n.e.c.:								
	1963	338	190,038	38	48	64	81	90	7449
		GROUP 37. TRANSPORTATION EQUIPMENT							
3713	Truck and bus bodies:								
	1963	594	476,733	22	32	50	66	88	86
	1958	r548	r292,446	21	31	49	68	r87	r87
	1954	r555	r256,883	(57)	(57)	(57)	(57)	r86	r87
	1947	599	242,297	22	31	48	(NA)	79	90
3715	Truck trailers:								
	1963	175	515,661	59	69	81	93	92	93
	1958	155	324,593	52	63	77	93	84	93
	1954	115	305,510	57	68	84	(NA)	82	93
	1947	107	155,686	56	67	83	(NA)	81	87
3717	Motor vehicles and parts:								
	1963	1,655	712,345,630	79	83	90	94	(56)	(56)
	1958	989	76,419,040	75	81	89	94	(56)	(56)
	1954	991	76,111,479	75	80	87	(X)	(56)	(56)
	1947	779	73,544,924	56	64	78	(X)	(56)	(56)
3721	Aircraft:								
	1963	82	73,542,695	59	83	99	99+	r69	r96
	1958	66113	73,375,900	59	83	99	99+	r81	r99
	1954	(75)	73,348,876	(75)	(75)	(75)	(75)	(75)	(75)
	1947	(75)	7605,983	(75)	(75)	(75)	(75)	(75)	(75)
3722	Aircraft engines and parts:								
	1963	194	4,100,520	56	77	92	98	87	93
	1958	186	3,359,312	56	77	92	97	94	93
	1954	202	3,188,950	62	81	93	(NA)	93	91
	1947	54	464,623	72	88	98	(NA)	90	95

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2]	Value of shipments[3]					Primary product specialization ratio[5]	Coverage ratio[6]
			Total	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies		
		(number)	($1,000)					(percent)	(percent)
		GROUP 37.—TRANSPORTATION EQUIPMENT—Continued							
3723	Aircraft propellers and parts:								
	1963	13	[7]113,433	(D)	(D)	100	(X)	48	81
	1958	17	[7]127,693	97	99	100	(X)	75	95
	1954	16	[7]108,415	91	98	100	(X)	84	87
	1947	12	[7]26,685	98	99+	100	(X)	([49])	([49])
3729	Aircraft equipment, n.e.c.:								
	1963	935	3,168,607	38	51	64	79	75	59
3731	Ship building and repairing:								
	1963	305	[76]1,679,765	48	63	81	92	92	99
	1958	293	[76]1,626,251	48	66	80	91	93	99
	1954	328	[76]1,077,889	43	58	74	(NA)	92	99
	1947	272	[76]802,561	43	55	73	(NA)	94	98
3732	Boat building and repairing:								
	1963	1,596	360,208	21	29	42	56	97	95
	1958	1,622	310,215	18	25	37	52	94	95
	1954	1,146	154,369	21	28	39	(NA)	93	85
	1947	798	114,374	31	41	53	(NA)	83	88
3741	Locomotives and parts:								
	1963	23	437,872	97	99	99+	100	r83	90
	1958	25	387,429	95	99	99+	100	r85	90
	1954	25	428,281	91	98	99+	100	82	95
	1947	33	355,205	91	95	99	100	95	83
3742	Railroad and street cars:								
	1963	68	927,184	53	73	93	99+	91	93
	1958	55	554,429	58	81	97	99+	88	91
	1954	47	495,767	64	81	98	100	83	86
	1947	68	726,167	56	72	92	(NA)	91	91
3751	Motorcycles, bicycles, and parts:								
	1963	85	192,851	56	77	94	99+	83	93
	1958	49	118,298	58	81	97	99+	84	93
	1954	44	95,649	50	77	97	100	86	92
	1947	75	163,670	42	68	92	(NA)	87	89
	1935	(NA)	(NA)	60	90	(NA)	(NA)	(NA)	(NA)
3791	Trailer coaches:								
	1963	348	713,119	22	37	53	71	98	99
3799	Transportation equipment, n.e.c.:								
	1963	507	167,375	14	23	40	62	89	75
		GROUP 38.—INSTRUMENTS AND RELATED PRODUCTS							
3811	Scientific instruments:								
	1963	571	553,920	29	40	58	75	84	56
3821	Mechanical measuring devices:								
	1963	623	1,143,511	22	36	61	81	90	23
3822	Automatic temperature controls:								
	1963	88	527,358	55	75	96	99+	82	95
3831	Optical instruments and lenses:								
	1963	272	196,022	41	53	73	87	90	61
	1958	222	88,955	46	60	74	88	90	66
	1954	([57])	([57])	([57])	([57])	([57])	([57])	([57])	([39])
	1947	([19])	45,344	([19])	([19])	([19])	([19])	([19])	([19])
3841	Surgical and medical instruments:								
	1963	279	284,014	47	58	72	86	88	74

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2]	Value of shipments[3]					Primary product specialization ratio[5]	Coverage ratio[6]
			Total	Percent accounted for by[4]—					
				4 largest companies	8 largest companies	20 largest companies	50 largest companies		
		(number)	($1,000)					(percent)	(percent)
		GROUP 38.—INSTRUMENTS AND RELATED PRODUCTS—Continued							
3842	Surgical appliances and supplies:								
	1963	657	594,756	49	58	71	84	80	90
3843	Dental equipment and supplies:								
	1963	302	147,805	37	50	70	88	94	92
	1958	240	108,732	45	57	73	89	95	92
	1954	193	79,171	40	53	73	(NA)	95	94
	1947	209	71,102	40	52	72	(NA)	97	94
	1935	(NA)	(NA)	51	67	(NA)	(NA)	(NA)	(NA)
3851	Ophthalmic goods:								
	1963	211	272,687	53	62	77	90	r86	92
	1958	226	191,459	52	62	74	86	87	98
	1954	223	157,939	54	63	75	(NA)	83	94
	1947	175	121,153	58	69	80	(NA)	86	97
3861	Photographic equipment:								
	1963	499	1,851,213	63	76	86	93	95	97
	1958	450	1,133,570	65	74	85	93	94	94
	1954	(57)	(57)	(57)	(57)	(57)	(57)	(57)	(57)
	1947	346	457,497	61	70	81	(NA)	93	97
	1935	(NA)	(NA)	77	84	(NA)	(NA)	(NA)	(NA)
3871	Watches and clocks:								
	1963	150	511,168	46	65	90	98	82	95
	1958	153	322,058	48	70	89	97	88	95
	1954	141	330,043	44	68	90	(NA)	82	90
	1947	183	341,199	41	59	82	(NA)	97	98
	1935	(NA)	(NA)	37	59	(NA)	(NA)	(NA)	(NA)
3872	Watchcases:								
	1963	51	33,620	57	72	93	(D)	86	97
	1958	58	34,607	57	71	89	99+	80	98
	1954	63	34,991	40	58	85	(NA)	86	85
	1947	81	44,494	40	60	84	(NA)	87	94
	1935	(NA)	(NA)	58	80	(NA)	(NA)	(NA)	(NA)
		GROUP 39.—MISCELLANEOUS MANUFACTURING							
3911	Jewelry, precious metal:								
	1963	1,428	481,943	26	33	42	53	92	r97
	1958	1,300	303,318	18	25	36	48	95	r98
	1954	1,323	258,147	15	23	36	(NA)	93	96
	1947	1,342	248,185	13	20	32	(NA)	92	95
3912	Jewelers' findings and materials:								
	1963	r228	r72,833	r33	r45	r65	r83	r92	r89
	1958	r248	r56,526	r27	r41	r58	r80	r90	r97
	1954	234	69,325	43	53	66	(NA)	92	91
	1947	180	73,530	39	52	75	(NA)	92	93
3913	Lapidary work:								
	1963	318	65,094	38	53	72	88	93	r81
	1958	326	38,493	16	28	53	79	99	r87
	1954	332	33,564	21	31	51	(NA)	97	91
	1947	270	30,269	26	38	58	(NA)	98	98
	1935	(NA)	(NA)	37	54	(NA)	(NA)	(NA)	(NA)
3914	Silverware and plated ware:								
	1963	201	237,999	55	66	81	91	95	98
	1958	198	192,194	54	67	79	91	95	98
	1954	190	211,083	61	72	83	(NA)	91	97
	1947	221	221,584	61	72	82	(NA)	98	97
	1935	(NA)	(NA)	56	68	(NA)	(NA)	(NA)	(NA)
3931	Musical instruments and parts:								
	1963	288	314,407	38	54	73	88	97	92

See footnotes at end of table.

Table 2. **Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935**—Continued

Code[1]	Industry and year[1]	Companies[2]	Value of shipments[3]					Primary product specialization ratio[5]	Coverage ratio[6]
			Total	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies		
		(number)	($1,000)					(percent)	(percent)
		GROUP 39.—MISCELLANEOUS MANUFACTURING—Continued							
3941	Games and toys:								
	1963	767	796,631	15	25	43	63	92	91
	1958	845	532,097	13	22	35	53	95	93
	1954	872	382,665	18	25	40	(NA)	95	89
	1947	830	181,939	20	29	44	(NA)	92	90
3942	Dolls:								
	1963	403	247,942	(D)	50	62	75	80-85	87
	1958	482	160,347	12	20	37	59	98	94
	1954	484	142,732	19	29	43	(NA)	92	97
	1947	374	69,786	39	48	62	(NA)	89	98
3943	Children's vehicles:								
	1963	60	77,507	43	67	94	99+	71	65
	1958	57	71,553	37	62	91	99+	84	81
	1954	58	76,650	46	66	90	(NA)	76	90
	1947	119	85,831	30	52	79	(NA)	81	79
	1935	(NA)	(NA)	47	64	(NA)	(NA)	(NA)	(NA)
3949	Sporting and athletic goods:								
	1963	1,361	704,718	37	44	52	64	93	91
	1958	1,167	542,544	41	49	58	69	88	91
	1954	1,007	293,735	21	31	47	(NA)	90	86
	1947	843	202,303	24	37	53	(NA)	94	90
3951	Pens and mechanical pencils:								
	1963	133	185,464	48	60	79	94	90	93
3952	Lead pencils and art goods:								
	1963	139	121,630	37	55	75	94	87	90
	1958[7][7]	138	93,406	44	60	(NA)	(NA)	88	92
3953	Marking devices:								
	1963	581	126,845	40	49	59	70	84	90
	1958	495	53,635	23	29	41	57	96	86
	1954	444	47,627	20	28	42	(NA)	90	89
	1947	415	27,459	16	25	40	(NA)	89	89
	1935	(NA)	(NA)	18	28	(NA)	(NA)	(NA)	(NA)
3955	Carbon paper and inked ribbons:								
	1963	91	155,513	38	55	78	97	r95	83
	1958	97	116,449	29	47	75	94	r91	89
	1954	80	81,190	31	48	78	(NA)	93	83
	1947	63	48,636	32	53	83	(NA)	[7][2]90	[7][2]90
	1935	(NA)	(NA)	35	56	(NA)	(NA)	(NA)	(NA)
3961	Costume jewelry:								
	1963	910	280,478	17	25	39	55	95	95
	1958	1,049	245,253	12	18	32	48	95	96
	1954	1,123	239,409	14	21	32	(NA)	95	95
	1947	855	170,294	24	33	48	(NA)	90	91
3962	Artificial flowers:								
	1963	367	60,418	17	26	42	62	97	87
	1958	428	60,376	12	19	35	56	98	98
	1954	466	49,990	9	16	32	(NA)	97	98
	1947	443	39,463	10	17	33	(NA)	97	99
3963	Buttons:								
	1963	282	81,835	27	39	59	78	96	87
	1958	348	65,706	20	32	52	73	98	88
	1954	395	64,769	20	29	47	(NA)	92	89
	1947	412	59,533	20	32	52	(NA)	93	94
	1935	(NA)	(NA)	15	27	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Code[1]	Industry and year[1]	Companies[2]	Value of shipments[3]					Primary product specialization ratio[5]	Coverage ratio[6]
			Total	Percent accounted for by[4]: 4 largest companies	8 largest companies	20 largest companies	50 largest companies		
		(number)	($1,000)					(percent)	(percent)
		GROUP 39.—MISCELLANEOUS MANUFACTURES—Continued							
3964	Needles, pins, and fasteners:								
	1963	315	337,285	34	47	64	81	91	92
	1958	359	214,837	35	47	64	80	93	89
	1954	349	203,122	44	56	68	(NA)	82	91
	1947	273	147,221	39	52	69	(NA)	91	89
	1935	(NA)	(NA)	63	76	(NA)	(NA)	(NA)	(NA)
3981	Brooms and brushes:								
	1963	628	321,129	31	41	57	73	89	93
	1958	713	252,170	23	33	49	65	87	96
	1954	688	185,445	21	32	47	(NA)	91	92
	1947	698	179,811	22	36	54	(NA)	94	97
3982	Hard surface floor coverings:								
	1963	15	204,112	87	98	100	(X)	82	98
	1958	11	178,810	83	(D)	100	(X)	(NA)	(NA)
	1954	10	181,582	87	(D)	100	(X)	85	97
	1947	14	173,255	80	95	100	(X)	91	100
3983	Matches:								
	1963	18	64,131	71	92	100	(X)	95-100	95-100
	1958	18	66,602	64	88	100	(X)	100	98
	1954	14	60,633	74	93	100	(X)	100	98
	1947	18	56,657	83	94	100	(X)	100	100
	1935	(NA)	(NA)	70	91	(NA)	(NA)	(NA)	(NA)
3984	Candles:								
	1963	108	45,515	38	55	79	96	95	94
	1958	85	32,216	38	57	82	95	r94	r95
	1954	88	29,288	40	58	83	(NA)	87	93
	1947	54	17,906	51	70	93	(NA)	91	87
	1935	(NA)	(NA)	61	82	(NA)	(NA)	(NA)	(NA)
3987	Lamp shades								
	1963	227	37,485	22	34	55	78	96	98
	1958	268	53,892	20	28	46	70	97	97
	1954	323	38,677	25	32	47	(NA)	93	96
	1947	291	27,499	21	30	45	(NA)	93	93
3988	Morticians' goods:								
	1963	581	290,036	20	27	41	57	95	98
	1958	562	226,597	21	28	42	56	r95	99
	1954	541	166,141	20	26	38	(NA)	97	97
	1947	525	188,829	26	34	45	(NA)	90	97
	1935	(NA)	(NA)	17	23	(NA)	(NA)	(NA)	(NA)
3992	Furs, dressed and dyed:								
	1963	131	42,007	27	44	73	91	(69)	(69)
	1958	135	29,275	25	43	71	90	(69)	(69)
	1954	158	29,060	30	42	65	(NA)	(69)	(69)
	1947	171	53,089	33	42	59	(NA)	(69)	(69)
	1935	(NA)	(NA)	27	40	(NA)	(NA)	(NA)	(NA)
3993	Signs and advertising displays:								
	1963	3,165	646,772	5	8	15	26	96	95
	1958	2,689	446,888	5	8	14	26	86	87
	1954	2,600	353,340	8	11	18	(NA)	93	92
	1947	1,933	204,731	5	9	18	(NA)	95	88
	1935	(NA)	(NA)	9	14	(NA)	(NA)	(NA)	(NA)
3995	Umbrellas, parasols, and canes:								
	1963	109	36,630	31	43	67	92	95	98
	1958	120	34,862	26	39	63	90	95	95
	1954	138	31,613	22	38	60	(NA)	95	92
	1947	162	34,348	22	37	58	(NA)	97	100
	1935	(NA)	(NA)	30	43	(NA)	(NA)	(NA)	(NA)
3999	Miscellaneous products, n.e.c.:								
	1963	1,479	458,471	13	22	34	49	94	84

Footnotes on next page.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Footnotes for Table 2

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. [r]Revised.
n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

[1]Industry codes and descriptions are based on the 1957 Standard Industrial Classification Manual (SIC) as modified. This classification system represented a substantial revision from the previous 1945 edition and was put into effect with the final reports in the 1958 census. However, the concentration ratios in 1958 were tabulated on the 1945 edition to preserve comparability to prior years. Also in 1958, establishments in Alaska and Hawaii were not included as part of U.S. industry totals since these States did not attain Statehood until 1959. Data and ratios for 1958 and prior years are shown in this report only if the industry definitions are so closely comparable that the concentration ratios could not be affected by the shifting of plants due to industry classification changes or by the change in treatment of Alaska and Hawaii. (See "Concentration Ratios in Manufacturing Industry: 1958," Part I, table 7, for comparability of old-new industry definitions.)

[2]The determination of company affiliation of establishments is based on census reports and publicly available records. Value of shipment totals for establishments have been summarized into company totals in each manufacturing industry. "Largest" companies are determined by each company's value of shipments in the specified industry.

[3]Value of shipments figures are not completely comparable between 1963 and prior years. They include for all establishments classified in the industry (a) value of products primary to the industry, (b) value of all secondary products which are primary to other industries, (c) value of miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, salable refuse, repairs, etc. and (d) value of resales--i.e., products resold in same condition as bought. In 1958 and prior years value of resales was excluded from value of shipments.

[4]The percentages consist of the sum of the value of shipments of the largest 4 companies (or 8, 20, or 50 companies), divided by the total value of shipments of the industry.

[5]The "primary product specialization ratio" measures the extent to which plants classified in the industry specialize in making products regarded as primary to the industry; that is, value of shipments of primary products of plants in the industry is expressed as a ratio of the total shipments of all products made by these establishments (excluding miscellaneous receipts, such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair, etc.). The 1954 and 1947 ratios for some industries reflect minor revision of previously published census data.

[6]The "coverage ratio" measures the extent to which all shipments of primary products of an industry are made by plants classified in the industry, as distinguished from secondary producers elsewhere; that is, value of shipments of the primary products made by plants classified in the industry is expressed as a ratio of the total shipments of primary products made by all producers, both in and out of the specified industry. The ratios for 1958 and prior years reflect minor revision of previously published census data.

[7]Value added by manufacture is shown for this industry rather than value of shipments because the latter contains a substantial and unmeasurable amount of duplication. The calculations for the 4, 8, 20 and 50 largest companies also are based on value added. The value added figure for 1963 is adjusted value added; for 1958 and prior years it is unadjusted value added. Adjusted value added is calculated by subtracting the cost of materials including cost of resales from the value of shipments including resales and adjusting for the change in finished products and work-in-process inventories during the year. Unadjusted value added excludes value added by resales and any inventory change.

[8]Not completely comparable to 1954 and later years because of a change in industry classification. For discussion of 1947-1954 comparability, see 1954 Census of Manufactures, Volume II, Industry Statistics, "Dairy Products."

[9]In 1954, industry 2027, Fluid Milk, was composed of 2 industries, 2026, Fluid Milk (only), and 2027, Fluid Milk and Other Products. In 1954 figures on value of shipments and share of value of shipments accounted for by the 4 and 8 largest companies have been recalculated on a basis comparable to 1958. In 1947 and earlier years, establishments primarily distributing fluid milk were classified as nonmanufacturing.

[10]Establishments in Alaska and Hawaii are important producers in this industry. Recomputed figures cannot be shown for the 4, 8, 20, 50 companies prior to 1963 without disclosing the operation of individual companies in Alaska and Hawaii.

[11]Value of production shown for this industry rather than value of shipments. For 1963 the figure includes value of primary and secondary products made, miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap and other salable refuse, and the value of products bought and resold in the same condition. For 1958 and prior years resales are excluded.

[12]The 1954 data for industry 2036 are not completely comparable to 1958; 1963 and 1947 data are not available. In 1947 industry 2036, Packaged Seafood, was in part (frozen packaged seafood) included in industry 2037, Frozen Fruits, Vegetables, and Fish, and in part (fresh packaged seafood) included in nonmanufacturing industries (principally industry 5046, Fish and Seafoods). A significant but undetermined number of establishments classified in industry 2036 in 1958 and 1963 were probably classified in industry 5046 in 1954.

[13]Includes data for 21 wholesale distributors of malt liquors. Each had less than 10 employees and had no significant effect on any of the statistics for the industry except the establishment and company counts.

[14]Bonded store rooms which were engaged in blending wines were included in 1963, 1958, and 1954, but excluded in 1947.

[15]The discrepancy between these figures and those appearing in table 1 of the 1958 Census of Manufactures, Volume 11, Chapter 20H, Fats and Oils (82 companies and $994,865,000 value of shipments) is due to a misclassification of 16 small companies into industry 2092. These companies should have been classified into industry 2096, Shortening and Cooking Oils.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Footnotes for Table 2--Continued

[16]The 1957 (SIC) combined into this industry two industries which were separate in the 1945 SIC: industry 2882, Linseed Oil Mills, and industry 2884, Vegetable Oil Mills, N.E.C. The 1958 value of shipments figures for these 2 industries have been combined and the ratios for the 4 and 8 largest companies have been recomputed on a basis comparable to 1963.

[17]The SIC, as revised in 1963, combined into this industry two industries which were separate in the 1945 SIC: industry 2886, Grease and Tallow, and industry 2889, Animal Oils, N.E.C. The 1958 value of shipments figures for these 2 industries have been combined and the ratios for the 4 and 8 largest companies have been recomputed on a basis comparable to 1963.

[18]The 1957 SIC combined into this industry two industries which were separate in the 1945 SIC: industry 2092, Shortening and Cooking Oils, and industry 2093, Margarine. The 1958 value of shipments figures for these 2 industries have been combined and the ratios for the 4 and 8 largest companies have been recomputed on a basis comparable to 1963.

[19]Comparable data are not available because of significant changes in the 1947 classification of plants or products in this industry.

[20]Jobbers were included in 1947 but excluded in 1954 and later years.

[21]Value of production shown for this industry in 1958 and prior years whereas value of shipments is shown for 1963. This change does not affect significantly the comparability between 1963 and prior years.

[22]The SIC combined in this industry two industries which were separate in the 1957 SIC: industry 2255, Knit Glove Mills, and industry 2259, Knitting Mills, N.E.C. The 1958 value of production figures for these 2 industries have been combined and the ratios for the 4 and 8 largest companies have been recomputed on a basis comparable to 1963.

[23]Includes finished cotton broadwoven fabrics (except commission finishing) which are also primary to industry 2211, Weaving Mills, Cotton. A coverage ratio computed on the basis of including both industries to which finished cotton broadwoven fabrics are primary would total 96 percent.

[24]Includes finished synthetic fabrics (except commission finishing) which are also primary to industry 2221, Weaving Mills, Synthetics. A coverage ratio computed on the basis of including both industries to which finished synthetic fabrics are primary would total 77 percent.

[25]Includes finished yarns except wool which are also primary to industry 2281, Yarn Mills, Except Wool. A coverage ratio computed on the basis of including both industries to which finished yarns, except wool, are primary would total 90 percent.

[26]Excludes shipments of $109 million of finished purchased yarns from establishments classified in industry 2269, Finishing Plants, N.E.C. A coverage ratio computed on the basis of including both industries to which yarns (gray and finished) are primary would total 92 percent.

[27]This industry included a large number of very small establishments in 1958, and there is a possibility that some were misclassified as to industry. Industry misclassification of these small establishments does not affect significantly any statistics other than the number of establishments and companies.

[28]This industry includes a large number of very small establishments in 1963 and some of these small establishments may have been misclassified as to industry. Industry misclassification of these small establishments does not affect significantly any statistics other than the number of establishments and companies.

[29]Includes products of Knitting Mills (SIC Group 225) which are primary to industries 2253 and 2254. See text of industry report MC63(2)-23A for more detailed discussion.

[30]Includes the shipments of women's and children's knit underwear and nightwear made in knitting mills (primary products of industry 2254) as well as the shipments of these products cut and sewed from purchased knit cloth. See text of industry report MC63(2)-23C for more detailed discussion.

[31]The 1957 SIC combined into this industry four industries which were separate in the 1945 SIC: industry 2281, Fur-Felt Hats and Hat Bodies; industry 2282, Wool-Felt Hats and Hat Bodies; industry 2283, Straw Hats; and industry 2325, Men's and Boys' Cloth Hats. The 1958 value of production figures for these four industries have been combined and the ratios for the largest 4 and 8 companies have been recomputed on a basis comparable to 1963.

[32]Includes the shipments of children's knit outerwear made in Knitting Mills (primary products of industry 2253) as well as the shipments of these products cut and sewed from purchased knit cloth. See text of industry report MC63(2)-23C for more detailed discussion.

[33]Includes the shipments of fabric gloves made in Knitting Mills (primary products of industry 2259) as well as the shipments of fabric gloves cut and sewed from purchased fabrics. See text of industry report MC63(2)-23D for more detailed discussion.

[34]The 1957 SIC combined in this industry two industries which were separate in the 1945 SIC: industry 2381, Fabric Dress Gloves, and industry 2382, Fabric Work Gloves. The 1958 value of shipments figures for these 2 industries have been combined and the ratios for the 4 and 8 largest companies have been recomputed on a basis comparable to 1963.

[35]A review of the reports for 1963 indicated that there were approximately 300 very small companies included in this industry that described their activities as custom drapery producers, interior decorators workrooms, etc. Approximately half of these companies were classified as nonmanufacturing in the 1958 Census.

[36]For 1963 the value of shipments total includes shipments of logs for establishments that own and maintain timberlands but contract the cutting of logs to others. The establishments that actually performed the logging on a contract basis also reported their receipts for contract logging under the heading total value of shipments. Thus, an undetermined amount of duplication exists in the shipments total. The figures previously reported for 1958 and prior years do not include shipments for timberland owners that do not perform their own logging.

[37]The coverage ratio for this industry is unusually low because of the large amount of wood chips manufactured by establishments classified in industry 2421, Sawmills and Planing Mills.

[38]The 1957 SIC combined in this industry two industries which were separate in the 1945 SIC: industry 2562, Window Shades, and industry 2563, Venetian Blinds. The 1958 value of shipments figures for these 2 industries have been combined and the ratios for the 4 and 8 largest companies have been recomputed on a basis comparable to 1963.

Table 2. Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935—Continued

Footnotes for Table 2--Continued

[39]The 1963 and 1958 concentration ratios for this industry are not comparable to those published for earlier years. Beginning with the 1958 Census of Manufactures integrated pulp and paper companies were given the option of reporting their pulp and paper (or board) operations on a combined basis when both were conducted at a single physical location. Most integrated companies exercised this option and filed a single report covering their pulp, paper (or board) making operations at a single physical location, but a few with departmental accounting chose to report separately for the pulp mill and paper (or board) mill, as they were required to do in 1954 and 1947. The only other pulp mills separately reported in the 1958 Census of Manufactures were (1) those exclusively selling their pulp on the market (i.e., not associated or affiliated with a paper and board mill), and (2) those pulp mills affiliated or associated with paper or board mills but operated at a different physical location from the paper or board mill(s).

[40]The 1957 SIC combined in this industry two industries which were separate in the 1945 SIC: industry 2781, Bookbinding, and industry 2789, Miscellaneous Bookbinding Work. The 1958 value of shipments figures for these 2 industries have been combined and the ratios for the 4 and 8 largest companies have been recomputed on a basis comparable to 1963.

[41]Comparable data are not available. In 1947, industry 2818, Organic Chemicals, N.E.C., included industry 2815, Intermediates and Organic Colors.

[42]Government-owned establishments that are privately operated are included in this industry but did not enter into the calculation of the specialization and coverage ratios as all dollar receipts for these establishments were included as primary receipts.

[43]The 1957 SIC combined in this industry two industries which were separate in the 1945 SIC: industry 2819, Inorganic Chemicals, N.E.C., and industry 2811, Sulfuric Acid. The 1958 value of shipments figures for these 2 industries have been combined and the ratios for the 4 and 8 largest companies have been recomputed on a basis comparable to 1963.

[44]Includes lubricating oils and greases which are also primary to industry 2992, Lubricating Oils and Greases.

[45]Includes lubricating oils and greases which are also primary to industry 2911, Petroleum Refining. (See tables 5A and 5B of industry report MC63(2)-29A.)

[46]Includes data for industry 2991, Fuel Briquets and Packaged Fuels, and industry 2999, Petroleum and Coal Products, N.E.C. These industries were shown separately in 1947.

[47]The 1957 SIC combined in this industry two industries which were separate in the 1945 SIC: industry 3192, Saddlery, Harness, and Whips, and industry 3199, Leather Goods, N.E.C. The 1958 value of shipments figures for these 2 industries have been combined and the ratios for the 4 and 8 largest companies have been recomputed on a basis comparable to 1963.

[48]This is a minimum ratio. The exact ratio is withheld to avoid disclosing figures for individual companies.

[49]The 1958 and earlier years' shipments and associated concentration ratios are not comparable to 1963 because of the significant amount of resales.

[50]Readymixed concrete was included in the census of manufactures for the first time in 1958. No comparable information is available for earlier years.

[51]Revised percentages not available.

[52]Industry 3312, Blast Furnaces and Steel Mills, has been redefined since 1954 to include industry 3311, Blast Furnaces; industry 3312, Steelworks and Rolling Mills; industry 2931, Byproduct Coke Ovens. For 1954 and 1947, value added by manufacture and shares accounted for by the largest 4, 8, and 20 companies have been recomputed on a basis comparable to 1958 and 1963.

[53]The value of shipments for this industry totaled $16,418 million in 1963. This value, however, includes duplication in that the products of some establishments are used as materials by others. A specialization ratio computed on the basis of net value of shipments would approximate 94 percent. Although a coverage ratio cannot be computed precisely, it would exceed 86 percent. Approximate ratios for 1958 were: specialization, 94 percent; coverage, 84 percent.

[54]Included in this industry are electrometallurgical products which are also primary to industry 3312, Blast Furnaces and Steel Mills. A coverage ratio computed on the basis of including both industries to which electrometallurgical products are primary would total 94 percent for 1963, 96 percent for 1958, 95 percent for 1954, and approximately 95 percent for 1947.

[55]Industry 3321, Gray-iron Foundries, includes, in addition to commercial (jobbing) foundries, "captive" foundries at separate locations producing gray-iron castings for other plants of the same company. Accordingly, the ratios for this industry do not reflect the market shares in the commercial foundry industry as such.

[56]Ratios not meaningful because total value of primary products shipped include a significant amount of duplication.

[57]Comparable data are not available due to significant revisions in the 1954 classification of plants or products in this industry.

[58]Included in this industry is refined zinc which is also primary to industry 3341, Secondary Nonferrous Metals. Coverage ratios computed on the basis of including both industries to which refined zinc is primary would total 96 percent for 1963, 93 percent for 1958, and approximately 91 percent and 100 percent for 1954 and 1947, respectively.

[59]Included in this industry are aluminum-base alloys which are also primary to industry 3341, Secondary Nonferrous Metals, and industry 3352, Aluminum Rolling and Drawing. Coverage ratios computed on the basis of including all three industries to which aluminum-base alloys are primary would total 96 percent for 1963, 98 percent for 1958, 99 percent for 1954, and approximately 99 percent for 1947.

[60]Included in this industry are refined nonferrous alloys, n.e.c., which are also primary to industry 3341, Secondary Nonferrous Metals. Coverage ratios computed on the basis of including both industries to which nonferrous alloys, n.e.c., are primary would total 59 percent for 1963, and 45 percent for 1958.

Table 2. **Percent of Value of Shipments Accounted for by the Largest Companies in Each Manufacturing Industry: 1963 Compared With 1958, 1954, 1947, and 1935**—Continued

Footnotes for Table 2--Continued

[61]Included in this industry are refined copper, lead, zinc, aluminum, precious metals, and other nonferrous metals. Each of these product classes is also primary to the comparable primary smelting and refining industry in Industry Group 333. Coverage ratios computed on the basis of including all industries all industries to which the classes are primary would total 89 percent for 1963, and 80 percent for 1958.

[62]Included in this industry is aluminum and aluminum-base alloy wire (including ACSR) which is also primary to industry 3357, Nonferrous Wire Drawing, Etc. A coverage ratio computed on the basis of including both industries to which aluminum and aluminum-base alloy wire (including ACSR) is primary would total 96 percent for 1963.

[63]Included in this industry is other nonferrous metal wire, which is also primary to industry 3357, Nonferrous Wire Drawing, Etc. Coverage ratios computed on the basis of including both industries to which nonferrous wire is primary would total 85 percent for 1963, and 87 percent for 1958.

[64]Included in this industry are aluminum and aluminum-base alloy wire (including ACSR), other nonferrous metal wire, nonferrous woven wire products, and appliance wire and cord and flexible cord sets which are also primary, respectively, to industries 3352, Aluminum Rolling and Drawing; 3356, Rolling and Drawing, Etc.; 3481, Fabricated Wire Products, N.E.C.; and 3699, Electrical Products, N.E.C. A coverage ratio computed on the basis of including the industries to which these products are primary in 1963 would total 94 percent.

[65]Included in this industry are open die hammer and press forgings which are also primary to industry 3312, Blast Furnaces and Steel Mills. Coverage ratios computed on the basis of including both industries to which open die hammer and press forgings are primary would total 80 percent for 1963, and 88 percent for 1958.

[66]A number of small establishments was misclassified into this industry. This affects the figure for the number of companies but has no appreciable effect on the total value of shipments or the percentage of value of shipments accounted for by the largest companies.

[67]The 1957 SIC combined in this industry three industries which were separate in the 1945 SIC: industry 3422, Edge Tools; industry 3423, Hand Tools, N.E.C.; and industry 3424, Files. The 1958 value of shipments figures for these three industries have been combined and the ratios for the 4 and 8 largest companies have been recomputed on a basis comparable to 1963.

[68]The 1957 SIC combined in this industry two industries which were separate in the 1945 SIC: industry 3461, Vitreous Enameled Products, and industry 3463, Metal Stampings. The 1958 value of shipments figures for these 2 industries have been combined and the ratios for the 4 and 8 largest companies have been recomputed on a basis comparable to 1963.

[69]Indexes not meaningful because of large miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

[70]The 1957 SIC combined in this industry three industries which were separate in the 1945 SIC: industry 3465, Enameling and Lacquering; industry 3466, Galvanizing; and industry 3467, Engraving on Metal. The 1958 value of shipments figures for these 3 industries have been combined and the ratios for the 4 and 8 largest companies have been recomputed on a basis comparable to 1963.

[71]Included in this industry are selected fabricating wire products which are also primary to industry 3315, Steel Wire Drawing, Etc., (see table 5B, report MC63(2)-34E footnotes 3, 7, 10, and 12). Coverage ratios computed on the basis of including both industries to which these products are primary would total 79 percent for 1963, and 76 percent for 1958.

[72]Actual index is between figure shown and 1.00.

[73]Comparable figures not available. Ratios were calculated originally on value of shipments in 1954 and 1947. 1954 ratios for the largest 4 and 8 companies have been recalculated based on value added; 1947 ratios based on value added are not available.

[74]Included in this industry are appliance wire and cord and flexible cord sets which are also primary to industry 3357, Nonferrous Wire Drawing, Etc. For 1963, a coverage ratio computed on the basis of including both industries to which appliance wire and cord and flexible cord sets are primary would total 79 percent.

[75]Not completely comparable to 1958 and 1963 because of change in the SIC System. In 1958 and later years, an establishment manufacturing complete aircraft was classified in industry 3721, Aircraft, if its value of work done on aircraft exceeded its value of shipments of any other single industry's products. In 1954 and earlier years, any establishment manufacturing at least 1 complete aircraft was classified in industry 3721.

[76]Value of work done rather than value of shipments. Includes miscellaneous receipts such as receipts for contract work and commission work on materials owned by others, scrap, salable refuse, repair work, etc.

[77]The 1957 SIC combined into this industry two industries which were separate in the 1945 SIC: industry 3952, Lead Pencils and Crayons, and industry 3954, Artists' Materials. The 1958 value of shipments figures for these 2 industries have been combined and the ratios for the 4 and 8 largest companies have been recomputed on a basis comparable to 1963.

Special Report

Manufactured Activity in Government Establishments

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MANUFACTURING ACTIVITY IN GOVERNMENT ESTABLISHMENTS

This special report presents data of manufacturing activities for selected government establishments within the United States. These data are not included in other 1963 Census of Manufactures reports, which cover privately operated establishments only. Manufacturing establishments owned by the Federal Government and operated by private companies either for the government or for their own account are included with privately operated establishments. Three types of establishments are covered in this report: (1) Manufacturing facilities owned and operated by the Department of Defense; (2) prison industries (Federal, District of Columbia, and State); and (3) manufacturing facilities owned and operated by other U.S. Government agencies. The data were prepared with the cooperation of the Department of Defense, the Department of Justice, the Department of Interior, and the District of Columbia and State prison systems.

MANUFACTURING FACILITIES OWNED BY THE U.S. GOVERNMENT AND OPERATED BY THE DEPARTMENT OF DEFENSE

Data are shown in tables 1 to 3 for manufacturing facilities owned by the U.S. Government and operated by the Department of Defense. Although these establishments may also be engaged in nonmanufacturing activities at the same location, the statistics represent only their activities relating to manufacturing. All manufacturing installations which produce goods or perform manufacturing services, such as industrial research and development, are covered in this report. Data resulting from the conversion and modification of ships and aircraft by the Army and Navy, but not the Air Force, are also included. Manufacturing activities of the U.S. Air Force are not included because its accounting system is different from that used in the Industrial Fund of the Department of Defense and thus the Air Force concluded it could not provide data comparable to the other respondents (Army and Navy). Also, the report does not include activities of Defense Department installations which serve primarily or exclusively their own installations (e.g., bakeries and some machine shops). All printing and publishing activities are excluded because almost every large government installation engages in these activities to some degree, thus making coverage difficult.

There are approximately twice as many plants reporting in this survey as in the comparable 1958 survey. This increase is primarily because of the additions of research and development activities and manufacturing divisions of supply depots. As a result of this increase, there are two types of tables. The first type shows 1963 data for all Defense Department plants within the scope of this survey. The second shows 1963 data for only those plants that reported in 1958 and their comparable 1958 data.

In all tables, statistics are shown for employment, man-hours, payrolls, costs, and billings. Military personnel are not included in any of the employment, payroll, or man-hours data. The data represent only nonmilitary (wage board and graded) employees engaged in manufacturing activities at the plant. The cost and billings data for 1963 are based on the Industrial Fund accounting system of the Department of Defense. The Industrial Fund concepts of "Total Billings" and "Total Earned Revenue," which were used for the 1963 data, differ because the latter is the result of increasing or decreasing "Total Billings" to reflect the change in unbilled costs of work in progress.

The 1963 value added by manufacture data, shown in table 1, represent total earned revenue (including the value of manufacturing services) less the cost of materials, parts, and supplies actually consumed or put into production during the year.

PRISON INDUSTRIES (FEDERAL, DISTRICT OF COLUMBIA, AND STATE)

During 1963, manufactured products valued at $112,702 thousand were produced in Federal, District of Columbia, and State prisons in the United States. The comparable 1958 figure of $97,307 thousand also includes the value of products produced for use within the institutions as well as for products transferred to other governmental agencies or for sale in the open market. These data, shown in detail in table 4, cover the activities of the Federal Prison Industries, Inc., as well as those of the prison industries of each State and the District of Columbia.

MANUFACTURING FACILITIES OWNED AND OPERATED BY OTHER U.S. GOVERNMENT AGENCIES

Manufacturing operations of the Bureau of Mines, U.S. Department of Interior, are not included in the tables of this report. That agency is the primary producer of refined helium in the United States. During 1963, it operated five plants from which 627 million cubic feet of helium valued at $21,945 thousand were shipped. The average number of employees totaled 639, of which 479 were production and related workers, and the total wages and salaries paid amounted to $4,195 thousand. Comparable figures for other years as well as additional detail for production, shipments, consumption, prices, reserves, and activities relating to conservation and technology appear in the Minerals Yearbook, a publication of the Bureau of Mines.

Excluded from this report are the manufacturing activities of the Government Printing Office, the National Aeronautics and Space Administration, and the Tennessee Valley Authority. The operations of these agencies are covered in their annual reports. Also excluded are the minor manufacturing activities of such other government agencies as the Post Office Department and the General Services Administration.

TABLE 1. Department of Defense

Item	All employees (wage board and graded)		Production workers (wage board)			Costs ($1,000)	
	Number	Payroll ($1,000)	Number	Man-hours (1,000)	Wages ($1,000)	Materials, supplies, and parts used	Contractual services and other costs
GEOGRAPHIC AREA							
United States, total	230,646	1,691,651	155,300	[1]284,054	1,096,785	587,976	315,017
New England division	26,594	184,642	20,152	36,729	137,484	65,286	38,956
New Hampshire	8,825	61,396	6,950	12,628	48,418	21,078	5,519
Massachusetts	13,743	94,669	10,472	18,979	71,082	34,816	26,076
Rhode Island	3,193	21,921	2,504	4,707	16,405	5,575	7,361
Connecticut	833	6,656	226	415	1,579	3,817	-
Middle Atlantic division	49,190	353,850	32,068	57,851	219,217	124,306	58,689
New York	16,177	115,724	12,345	22,196	90,153	49,674	7,200
New Jersey	7,140	56,740	2,874	5,192	18,029	16,931	19,409
Pennsylvania	25,873	181,386	16,849	30,463	111,035	57,701	32,080
East North Central division	13,633	99,994	9,189	17,307	67,532	51,137	10,661
Indiana	5,534	41,556	3,500	6,824	26,417	15,005	3,814
Illinois	8,099	58,438	5,689	10,483	41,115	36,132	6,847
West North Central division	27	171	15	26	79	5	32
Iowa	27	171	15	26	79	5	32
South Atlantic division	59,744	439,216	37,958	69,196	263,612	133,082	104,748
Maryland	18,726	142,542	7,408	13,156	49,544	52,530	46,788
District of Columbia	4,799	40,991	1,218	2,144	7,893	10,775	30,026
Virginia	19,113	137,586	15,307	28,067	109,601	39,476	15,075
North Carolina	1,734	12,068	1,538	2,837	10,568	2,208	2,278
South Carolina	7,167	49,144	5,569	10,113	38,661	14,969	4,009
Georgia	939	5,558	687	1,274	3,876	3,507	301
Florida	7,266	51,327	6,231	11,600	43,469	9,617	6,271
East South Central division	10,999	92,745	3,597	6,503	26,513	19,818	16,548
Kentucky	2,624	19,772	1,895	3,436	14,837	9,962	1,782
Alabama	8,375	72,973	1,702	3,067	11,676	9,856	14,766
West South Central division	3,816	21,601	2,983	5,297	16,082	13,196	3,158
Arkansas	1,333	8,003	800	1,352	4,258	5,892	2,170
Oklahoma	1,008	5,478	783	1,438	4,122	494	988
Texas	1,475	8,120	1,400	2,507	7,702	6,810	-
Mountain division	3,877	26,660	2,120	3,851	14,258	20,463	20,029
Colorado	849	5,971	583	1,124	4,045	14,544	7,097
New Mexico	442	3,990	24	40	158	658	7,678
Utah	2,586	16,699	1,513	2,687	10,055	5,261	5,254
Pacific division	62,766	472,772	47,218	87,294	352,008	160,683	62,196
Washington	10,055	72,879	7,887	14,449	55,401	34,175	6,121
California	47,886	363,037	35,440	65,799	267,543	113,737	53,883
Hawaii	4,825	36,856	3,891	7,046	29,064	12,771	2,192
SIC CODES AND MAJOR ACTIVITY							
All manufacturing facilities, total.	230,646	1,691,651	155,300	284,054	1,096,785	587,976	315,017
23 Apparel and related products	1,809	8,305	1,689	2,785	7,520	1,404	723
281 Basic chemicals	5,836	40,441	2,365	4,038	14,440	21,557	19,968
289 Miscellaneous chemical products	2,704	18,531	1,796	3,327	12,158	27,371	3,270
353 Construction and like equipment	300	1,867	255	451	1,607	154	200
366 Communication equipment	10,697	82,393	4,488	9,706	28,016	31,191	27,787
372 Aircraft and parts	34,471	246,883	28,644	53,226	202,616	46,420	45,822
373 Ship and boat building	94,687	691,574	76,294	138,616	560,645	253,367	45,337
382 Mechanical measuring devices	27	171	15	26	79	5	32
19 Ordnance and accessories	66,154	495,656	35,559	64,592	243,587	174,545	121,342
192 Missiles and ammunition, n.e.c	36,657	282,829	17,478	32,370	119,702	94,282	68,493
-- Research and development	13,961	105,830	4,195	7,287	26,117	31,962	50,536

Note: Includes manufacturing facilities, research and development activities, and manufacturing performed in supply depots. Not comparable to data shown in the 1958 Census publication "Manufacturing Activity in Government Establishments, MC58(S)-1."

- Represents zero.

Facilities: 1963

Item	Value of shipments or receipts for service by type of activity ($1,000)						Value added by manufacture ($1,000)
	Manufacture and assembly	Construction and conversion	Research and development	Other receipts	Total billings	Total revenues	
GEOGRAPHIC AREA							
United States, total	433,140	597,321	634,193	877,151	2,541,805	2,641,227	2,053,251
New England division	68,665	128,927	37,849	49,088	284,529	292,564	227,278
New Hampshire	598	70,895	1,012	7,240	79,745	90,501	69,423
Massachusetts	67,039	39,775	13,700	40,372	160,886	155,450	120,634
Rhode Island	1,028	18,257	11,568	1,476	32,329	35,044	29,469
Connecticut	-	-	11,569	-	11,569	11,569	7,752
Middle Atlantic division	119,240	153,105	144,178	144,092	560,615	547,217	422,911
New York	27,411	90,410	19,196	41,367	178,384	179,753	130,079
New Jersey	33,720	605	42,861	26,432	103,618	93,150	76,219
Pennsylvania	58,109	62,090	82,121	76,293	278,613	274,314	216,613
East North Central division	103,383	1,167	11,442	45,275	161,267	164,696	113,559
Indiana	30,749	-	8,129	18,834	57,712	61,261	46,256
Illinois	72,634	1,167	3,313	26,441	103,555	103,435	67,303
West North Central division	100	-	-	108	208	208	203
Iowa	100	-	-	108	208	208	203
South Atlantic division	69,618	28,122	261,648	289,827	649,215	688,420	555,338
Maryland	51,418	-	151,237	44,165	246,820	244,157	191,627
District of Columbia	-	-	80,628	2,838	83,466	81,918	71,143
Virginia	6,804	12,832	21,467	121,455	162,558	195,255	155,779
North Carolina	435	-	384	15,226	16,045	17,141	14,933
South Carolina	235	15,290	1,971	48,108	65,604	70,619	55,650
Georgia	7,184	-	285	429	7,898	9,212	5,705
Florida	3,542	-	5,676	57,606	66,824	70,118	60,501
East South Central division	19,016	-	36,051	82,616	137,683	129,616	109,798
Kentucky	19,016	-	600	11,452	31,068	31,550	21,588
Alabama	-	-	35,451	71,164	106,615	98,066	88,210
West South Central division	19,192	4,007	68	16,246	39,513	38,248	25,052
Arkansas	14,804	-	60	2,759	17,623	16,358	10,466
Oklahoma	2,618	-	8	4,334	6,960	6,960	6,466
Texas	1,770	4,007	-	9,153	14,930	14,930	8,120
Mountain division	22,475	-	22,600	23,316	68,391	67,386	46,923
Colorado	20,120	-	-	9,876	29,996	27,740	13,196
New Mexico	-	-	12,326	-	12,326	12,326	11,668
Utah	2,355	-	10,274	13,440	26,069	27,320	22,059
Pacific division	11,451	281,993	120,357	226,583	640,384	712,872	552,189
Washington	2,867	77,331	2,526	21,852	104,576	117,044	82,869
California	8,548	199,976	117,831	168,429	494,784	543,037	429,300
Hawaii	36	4,686	-	36,302	41,024	52,791	40,020
SIC CODES AND MAJOR ACTIVITY							
All manufacturing facilities, total	433,140	597,321	634,193	877,151	2,541,805	2,641,227	2,053,251
23 Apparel and related products	10,908	-	-	109	11,017	10,624	9,220
281 Basic chemicals	34,956	-	26,927	21,042	82,925	80,835	59,278
289 Miscellaneous chemical products	37,570	-	4,266	6,408	48,244	49,831	22,460
353 Construction and like equipment	-	-	-	2,221	2,221	2,221	2,067
366 Communication equipment	40,587	605	78,111	34,070	153,373	142,905	111,714
372 Aircraft and parts	12,985	64,540	62,948	185,520	325,993	342,270	295,850
373 Ship and boat building	7,318	525,451	18,019	352,900	903,688	1,021,847	768,480
382 Mechanical measuring devices	100	-	-	108	208	208	203
19 Ordnance and accessories	288,716	6,725	260,533	264,555	820,529	798,043	623,498
192 Missiles and ammunition, n.e.c	94,145	4,007	184,910	164,136	447,198	447,063	352,781
-- Research and development	-	-	183,389	10,218	193,607	192,443	160,481

TABLE 2. Department of Defense Facilities,

Geographic area	1963. All employees (wage board and graded)		Production workers (wage board)			Costs ($1,000)	
	Number	Payroll ($1,000)	Number	Man-hours (1,000)	Wages ($1,000)	Materials, supplies, and parts used	Contractual services and other costs
United States, total	149,334	1,089,220	105,037	190,125	746,464	419,899	149,543
New England division	22,568	156,065	17,422	31,607	119,500	55,894	31,595
New Hampshire	8,825	61,396	6,950	12,628	48,418	21,078	5,519
Massachusetts	13,743	94,669	10,472	18,979	71,082	34,816	26,076
Middle Atlantic division	40,427	296,052	27,583	49,335	192,693	106,135	41,424
New York	14,744	108,884	11,689	21,226	86,720	47,981	7,200
New Jersey	7,140	56,740	2,874	5,192	18,029	16,931	19,409
Pennsylvania	18,543	130,428	13,020	22,917	87,944	41,223	14,815
East North Central division	10,388	73,413	7,181	13,312	50,577	36,586	7,863
Indiana	2,589	16,842	1,747	3,280	11,069	608	1,216
Illinois	7,799	56,571	5,434	10,032	39,508	35,978	6,647
South Atlantic division	26,670	189,911	19,007	34,496	134,820	82,862	25,496
Maryland	6,658	46,998	3,068	5,485	20,235	34,117	17,440
District of Columbia	-	-	-	-	-	-	-
Virginia	11,906	88,211	9,683	17,624	72,048	30,269	3,746
South Carolina	7,167	49,144	5,569	10,113	38,661	14,969	4,009
Georgia	939	5,558	687	1,274	3,876	3,507	301
Florida	-	-	-	-	-	-	-
East South Central division	10,299	88,497	3,172	5,767	23,923	19,223	15,848
Kentucky	1,924	15,524	1,470	2,700	12,247	9,367	1,082
Alabama	8,375	72,973	1,702	3,067	11,676	9,856	14,766
West South Central division	2,341	13,481	1,583	2,790	8,380	6,386	3,158
Arkansas	1,333	8,003	800	1,352	4,258	5,892	2,170
Oklahoma	1,008	5,478	783	1,438	4,122	494	988
Mountain division	549	3,971	293	528	2,105	8,919	3,628
Colorado	549	3,971	293	528	2,105	8,919	3,628
Nevada	-	-	-	-	-	-	-
Pacific division	36,092	267,830	28,796	52,290	214,466	103,894	20,531
Washington	10,055	72,879	7,887	14,449	55,401	34,175	6,121
California	26,037	194,951	20,909	37,841	159,065	69,719	14,410

Note: Research and development activities, and manufacturing performed in supply depots are excluded, making 1963 data comparable to 1958.

- Represents zero.

TABLE 3. Department of Defense Facilities,

Major activity	1963. All employees (wage board and graded)		Production workers (wage board)			Costs ($1,000)		Value of shipments or receipts for service by type of activity ($1,000)		
	Number	Payroll ($1,000)	Number	Man-Hours (1,000)	Wages ($1,000)	Materials, supplies, and parts used	Contractual services and other costs	Manufacture and assembly	Construction and conversion	Research and development
All manufacturing facilities, total.	149,334	1,089,220	105,037	190,125	746,464	419,899	149,543	370,249	524,088	172,716
23 Apparel and related products	1,809	8,305	1,689	2,785	7,520	1,404	723	10,908	-	-
281 Basic chemicals	5,836	40,441	2,365	4,038	14,440	21,557	19,968	34,956	-	26,927
289 Miscellaneous chemical products	2,704	18,531	1,796	3,327	12,158	27,371	3,270	37,570	-	4,266
366 Communication equipment	7,140	56,740	2,874	5,192	18,029	16,931	19,409	33,720	605	42,861
373 Ship and boat building	84,862	654,718	72,403	131,570	531,581	240,596	43,145	7,282	520,765	18,019
384 Personal safety devices	-	-	-	-	-	-	-	-	-	-
19 Ordnance and accessories	41,983	310,485	23,910	43,213	162,736	112,040	63,028	245,813	2,718	80,643
192 Missiles and ammunition, n.e.c.	18,361	143,574	8,660	15,939	59,074	41,973	24,054	63,095	-	40,140

Note: Research and development activities, and manufacturing performed in supply depots are excluded, making 1963 data comparable to 1958.

by Geographic Areas: 1963 and 1958

Geographic area	1963--Continued						1958	
	Value of shipments or receipts for service by type of activity ($1,000)						All employees (wage board and graded)	
	Manufacture and assembly	Construction and conversion	Research and development	Other receipts	Total billings	Total revenues	Number	Payroll ($1,000)
United States, total	370,249	524,088	172,716	552,878	1,619,931	1,693,663	125,440	717,130
New England division	67,637	110,670	14,712	47,612	240,631	245,951	20,025	113,295
New Hampshire	598	70,895	1,012	7,240	79,745	90,501	7,390	41,486
Massachusetts	67,039	39,775	13,700	40,372	160,886	155,450	12,635	71,809
Middle Atlantic division	114,341	153,105	78,034	121,581	467,061	453,663	31,252	171,285
New York	27,411	90,410	14,310	37,399	169,530	170,899	15,040	87,009
New Jersey	33,720	605	42,861	26,432	103,618	93,150	1,915	10,595
Pennsylvania	53,210	62,090	20,863	57,750	193,913	189,614	14,297	73,681
East North Central division	79,516	1,167	4,667	34,650	120,000	119,880	4,219	23,607
Indiana	6,882	-	1,354	10,430	18,666	18,666	185	895
Illinois	72,634	1,167	3,313	24,220	101,334	101,214	4,034	22,712
South Atlantic division	52,792	28,122	34,300	144,951	260,165	302,191	26,555	143,624
Maryland	41,920	-	31,133	21,591	94,644	97,662	1,263	6,824
District of Columbia	-	-	-	-	-	-	5,266	29,002
Virginia	3,453	12,832	911	74,823	92,015	124,698	11,880	65,361
South Carolina	235	15,290	1,971	48,108	65,604	70,619	7,075	37,146
Georgia	7,184	-	285	429	7,898	9,212	702	3,338
Florida	-	-	-	-	-	-	369	1,953
East South Central division	18,473	-	36,051	77,616	132,140	124,073	7,192	52,047
Kentucky	18,473	-	600	6,452	25,525	26,007	1,737	9,890
Alabama	-	-	35,451	71,164	106,615	98,066	5,455	42,157
West South Central division	17,422	-	68	7,093	24,583	23,318	844	3,978
Arkansas	14,804	-	60	2,759	17,623	16,358	191	1,023
Oklahoma	2,618	-	8	4,334	6,960	6,960	653	2,955
Mountain division	15,802	-	-	3,100	18,902	16,646	1,251	6,500
Colorado	15,802	-	-	3,100	18,902	16,646	78	449
Nevada	-	-	-	-	-	-	1,173	6,051
Pacific division	4,266	231,024	4,884	116,275	356,449	407,941	34,102	202,794
Washington	2,867	77,331	2,526	21,852	104,576	117,044	10,942	63,373
California	1,399	153,693	2,358	94,423	251,873	290,897	22,160	139,421

by Type of Activity: 1963 and 1958

Major activity	1963--Continued			1958					
	Value of shipments or receipts for service by type of activity--Continued ($1,000)			All employees (wage board and graded)		Production workers (wage board)			Value added by manufacture
	Other receipts	Total billings	Total revenues	Number	Payroll ($1,000)	Number	Man-hours (1,000)	Wages ($1,000)	($1,000)
All manufacturing facilities, total.	552,878	1,619,931	1,693,663	125,440	717,130	93,871	173,833	531,587	799,239
23 Apparel and related products	109	11,017	10,624	2,513	9,515	2,212	4,308	7,937	10,501
281 Basic chemicals	21,042	82,925	80,835	269	1,472	222	440	1,249	1,655
289 Miscellaneous chemical products	6,408	48,244	49,831	1,160	6,188	789	1,394	3,980	7,500
366 Communication equipment	26,432	103,618	93,150	1,915	10,595	1,435	2,508	7,940	18,657
373 Ship and boat building	316,598	862,664	969,056	91,083	522,649	73,174	135,278	420,944	571,127
384 Personal safety devices	-	-	-	103	636	86	165	526	699
19 Ordnance and accessories	182,289	511,463	490,167	28,397	166,075	15,953	29,740	89,011	189,100
192 Missiles and ammunition, n.e.c.	110,658	213,893	210,134	9,605	65,096	4,649	8,759	26,602	69,087

TABLE 4. Federal, District of Columbia, and State Prisons: 1963 and 1958

Product[1]	Unit of measure	Total shipments, including interplant transfers			
		1963		1958	
		Quantity	Value ($1,000)	Quantity	Value ($1,000)
Total	...	(X)	112,702	(X)	97,307
Meat products	...	(X)	5,696	(X)	5,893
Canned foods	...	(X)	4,725	(X)	4,608
Prepared animal feeds	...	(X)	2,588	(X)	1,129
Coffee and tea	...	(X)	795	(X)	1,171
Chewing and smoking tobacco	...	(X)	1,273	(X)	1,067
Blankets	...	(X)	2,275	(X)	1,506
Woven fabrics	1,000 lbs.	13,266	8,465	14,682	11,277
Cordage and twine	...do.	13,812	1,862	15,334	2,707
Apparel and related products	...	(X)	14,966	(X)	12,364
Sheets and pillow cases	...	(X)	1,754	(X)	948
Canvas specialties	...	(X)	3,735	(X)	4,309
Mattresses	...	(X)	2,696	(X)	3,369
Wooden furniture	...	(X)	7,182	(X)	5,364
Printing and binding	...	(X)	3,324	(X)	2,317
Soaps	...	(X)	2,370	(X)	2,068
Paints	...	(X)	3,325	(X)	2,006
Shoes	1,000 prs.	1,143	6,327	1,030	5,674
Clay and concrete brick	1,000	15,915	212	(X)	264
Concrete block	...	(X)	418		
Motor vehicle license plates	1,000	97,796	11,481	94,004	10,899
Miscellaneous metal products	...	(X)	10,157	(X)	6,532
Brooms and brushes	...	(X)	4,859	(X)	4,178
Highway and road signs	1,000	1,659	6,931	1,340	3,693
Miscellaneous products	...	(X)	5,286	(X)	[2]3,964

Note: Excludes agricultural products, road building, and other nonmanufacturing activities.

(X) Not applicable.

[1]The products listed are classified within the Standard Industrial Classification System as follows:

SIC code	Product	SIC code	Product	SIC code	Product
201	Meat products	230	Apparel and related products	314	Shoes
203	Canned foods	239	Sheets and pillowcases	325	Clay and concrete brick
204	Prepared animal feeds	239	Canvas specialties	327	Concrete block
209	Coffee and tea	251	Mattresses	346	Motor vehicle license plates
213	Chewing and smoking tobacco	253	Wooden furniture	349	Miscellaneous metal products
221	Blankets	275	Printing and binding	398	Brooms and brushes
223	Woven fabrics	284	Soaps	399	Highway and road signs
229	Cordage and twine	285	Paints	900	Miscellaneous products

[2]Includes the following values reported separately in 1958, but for which separate data are not available in 1963: Dairy products, 202, $1,807 thousand; flour, 204, $276 thousand; miscellaneous textile products, 229, $270 thousand; castings, 330, $300 thousand; and farm equipment, 352, $913 thousand.

Special Report

Shipments of Defense-Oriented Industries

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INTRODUCTION

This report shows shipments, in 1963, to government agencies by establishments in "defense-oriented" industries, together with related information on employment and value added by manufacture. The data were compiled as part of the 1963 Census of Manufactures by means of a supplemental inquiry on Form MA-175, Report on Shipments to or Receipts for Work Done for Federal Government Agencies and their Contractors and Suppliers in 1963. Shipments are shown by industry and by principal procuring agency (Department of Defense, National Aeronautics and Space Administration, and Atomic Energy Commission). Shipments, value added by manufacture, and employment are presented for groups of industries for geographic divisions, States, and selected standard metropolitan statistical areas (SMSA). Value of shipments and employment estimates (prorated on the basis of shipments) are shown for each of the classes of products by government procuring agency. The project was financed by the Department of Defense, National Aeronautics and Space Administration, Atomic Energy Commission, and the Arms Control and Disarmament Agency.

As indicated in table 1, value of shipments of the industries surveyed totaled $40.4 billion in 1963 of which approximately 62 percent was accounted for by Federal Government purchases. As a percent of the total value of shipments, government shipments ranged from 11.5 percent for selected machinery industries as a group to a high of 86.5 percent for aerospace (aircraft and missiles) industries. Direct and indirect shipments on government account (prime contracts and subcontracts) amounted to $13.9 billion for aerospace industries, $5.9 billion for communication equipment, $2.2 billion for shipbuilding and ordnance, $1.1 billion for electronic components, $0.7 billion for selected machinery, and $0.5 billion for instruments. By State, California was highest, with government business in the industries surveyed totaling $7.0 billion, followed by New York, Connecticut, Ohio, and New Jersey, in that order.

This supplemental survey to the 1963 Census of Manufactures was conducted to measure the impact of government procurement upon the manufacturing economy and upon geographic areas in terms of 30 "defense-oriented" industries which account for the major portion of government procurement. Similar data for other manufacturing industries are not available. For the most part, the 30 defense-oriented industries ship finished goods or components produced to military specifications. With the exception of the machinery industries, the preponderant portion of government business on these industries is subject to renegotiation and, therefore, is separable in the records of the respondent companies. In fact, respondents were told that they could base their subcontract shipments and receipts on those transactions subject to the Renegotiation Act of 1951, as Amended.

Approximately 2,500 establishments accounting for over 95 percent of all shipments and receipts of the 30 defense-oriented industries were included in the survey. Of the establishments filing returns, 1,300 reported shipments to (or receipts from) the government of more than $100,000; others reported no government shipments or government shipments of less than $100,000. (Respondents were instructed not to complete the report if they had less than $100,000 in government shipments.) Tables 1 and 3 present data for all establishments covered by the survey while tables 4, 5, 6, and 7 contain data only for establishments reporting shipments to the government in detail by procuring agency.

The mailing list for the survey was derived from the reporting panel for the 1962 Annual Survey of Manufactures, but establishments with fewer than 20 employees were excluded. The annual survey of manufactures is based on a probability sample. Data in tables 1, 2, and 3 were compiled in such a manner as to include in the tabulations "inflated" data derived by weighing the reports of smaller establishments, whereas tables 4 through 7 were compiled by adding the figures as reported. The total of $40.4 billion for this survey differs from a comparable industry total of $42.3 billion shown in the 1963 Census of Manufactures.

In this survey, government "shipments" consist of products shipped to or receipts for work done for Federal agencies, their contractors, subcontractors, and suppliers. The government total is further subdivided into shipments or receipts (1) on government prime contracts and (2) to other manufacturers in ultimate performance of Federal Government contracts.

Although the prime contract figures for the industries surveyed account for the great bulk of all such government contracts in manufacturing, the subcontract data represent a much smaller proportion of the total for all manufacturing because the usual subcontracting industries were excluded from the scope of the survey.

In interpreting the figures for subcontract work, it should be kept in mind that the 30 defense-oriented industries do not include basic materials and other component industries usually important in subcontracts. Also, reflecting inadequate instructions, companies having prime contracts usually reported interplant transfers within the company as prime contracts rather than subcontracts; to that extent, there is an overstatement of the prime contract figures and a corresponding understatement of subcontracts. Shipments of materials and components purchased by the government and furnished to contractors supplying finished equipment were reported as prime contracts.

Furthermore, there is no indication of the level of subcontracting (e.g., first tier, second tier, etc.).

By the nature of the industries surveyed, it is likely that, with the exception of a few industries such as electronic components, most of the subcontracting is first tier only and the pyramiding of shipment values from one tier to another is not large.

The survey was designed so that the data reported would be comparable with the basic concepts used in the census and annual survey of manufactures. Accordingly, the product class description, product class code, and 1963 value of shipments were reported by manufacturers using Item 9 of their census report as a control for total shipments for each product class. In certain industries with lengthy production cycles for their products, the value figures reported do not pertain to actual shipments from those establishments, but represent the value of work done on those products. This is identical to the procedure of measuring activity for these particular industries in the census of manufactures.

Tables 2, 5, and 7 contain data by industry groups. For purposes of showing as much geographic and agency detail as possible, keeping in mind the rules of disclosure, Standard Industrial Classification industries were aggregated into groups of industries. Appendix A shows the groupings of these industries and what industries were canvassed for this survey.

Table 3 includes separate data on "miscellaneous industries." The respondents in this survey were instructed that if their company had significant research, development, test, evaluation, or production contracts in the fields of aerospace, atomic energy, electronics, instrumentation, ordnance, or shipbuilding which were assigned by the company to establishments that had not been reported on form MA-100, they were to complete a form MA-175 for each such location. These nonmanufacturing facilities of the manufacturing companies reporting on this survey are classified in this category. Data for this category, shown separately in table 3, are included in the totals for industry group, "Selected Instruments and Miscellaneous Industries," as appears in the other tables.

Table 4 shows data by 5-digit product class. Data at the 4-digit level appearing on this table are totals of the 5-digit figures and the values shown for such 4-digit groups differ from those provided on a 4-digit industry basis in table 3. The differences are attributable to variations between the amount of the specified products made in other industries and the extent to which secondary products are made in the given industry (see the text to 1963 Census of Manufactures reports for further explanation).

Also in table 4, employment (other than the total) has been estimated. The estimation method used was a straight proration of the product class data reported by agency as a percentage of the total shipments of that establishment. The value for "resales" (products bought and resold without further manufacture) was subtracted from the total value of shipments before making the estimated employment computations.

Tables 6 and 7 show data by State and selected SMSA. Actual figures or ranges of figures are shown for all States. Data are provided for SMSA's having more than 40,000 manufacturing employees which account for approximately 75 percent of all manufacturing employment.

DEPARTMENT OF DEFENSE AND ATOMIC ENERGY COMMISSION FACILITIES NOT COVERED BY THE SURVEY OF DEFENSE-ORIENTED INDUSTRIES

The employment and value data presented in tables 2 through 7 afford a picture of government activity in the private industry sector of the manufacturing economy as defined by the 30 selected defense-oriented industries. Manufacturing activity is also carried on in government-owned and operated locations by the Department of Defense (DOD). The Atomic Energy Commission (AEC) contracts for the output of goods and services by private manufacturers but mostly in plants classified in industries not covered by the MA-175 survey (e.g. chemicals) and for services such as research and development in facilities maintained by universities and other nonmanufacturing organizations. Information on these DOD and AEC facilities are shown by geographic area in appendix tables B, C, and D. The figures in these tables, provided by those agencies, are not duplicated in the basic tables 1 through 7 obtained from the MA-175 survey with the exception of 5 to 10 percent of the AEC totals (principally in the ordnance and accessories category of the MA-175). The DOD and AEC activities should be taken into account in determining the total impact of government expenditures upon the nation and selected geographic areas.

TABLE 1. Shipments and Receipts of Defense-Oriented Industries--Summary Statistics, by Agency

The United States total of $37.4 billion, in tables 1, 2, and 3, represents the universe of plants with twenty or more employees with small plants inflated in accordance with their sample weights in the 1962 Annual Survey of Manufactures. Data in tables 4 through 7, aggregating to a United States total of $36.6 billion, are not inflated, i.e., they represent reported data only

Item	Value (million dollars)
SHIPMENTS FROM MA-175 SURVEY, TOTAL[1]	40,403.8
Establishments reporting government shipments of less than $100,000[2]	3,040.1
Establishments reporting government shipments of more than $100,000	37,363.7
Prime contract shipments[3], total	19,783.2
Department of Defense (DOD)	16,996.2
National Aeronautics and Space Agency (NASA)	2,048.4
Atomic Energy Commission (AEC)	257.9
Other agencies	480.7
Subcontract shipments[3], total	5,239.9
Agency known, total	4,417.8
DOD	3,631.1
NASA	507.0
AEC	67.7
Other agencies	212.0
Agency not known, total	822.1
DOD, NASA, or AEC	523.7
Other agencies	298.4
Other shipments (nongovernment)	12,340.6

[1]Includes total value of shipments data for those establishments that had "more than $100,000" in shipments to the Federal Government as well as those establishments that reported "none" or "less than $100,000" in government shipments.

[2]Represents total value of shipments of those establishments indicating on their report that they had no shipments to the Federal Government or some shipments the value of which, however, did not exceed $100,000. These establishments were not required to complete the entire report and therefore, there is no breakdown by prime contract and subcontract or by agency.

[3]See text for limitations applicable to the distinction of prime versus subcontract.

TABLE 2. Employees, Value Added, and Value of Shipments and Receipts, by Industry Groups

1963 Census of Manufactures compared to MA-175 Survey. The United States total of $37.4 billion, in tables 1, 2, and 3, represents the universe of plants with twenty or more employees with small plants inflated in accordance with their sample weights in the 1962 Annual Survey of Manufactures. Data in tables 4 through 7, aggregating to a United States total of $36.6 billion, are not inflated, i.e., they represent reported data only

Item	Total	Industry group[1]					
		Selected machinery	Communication equipment	Electronic components and accessories	Aerospace industries	Shipbuilding and repairing and ordnance[2]	Selected instruments and miscellaneous industries[3]
Number of employees:							
1963 Census of Manufactures (total for industries covered on MA-175)[4]....1,000..	2,222.7	317.2	474.2	283.7	831.5	206.3	109.8
MA-175 Survey (establishments reporting government shipments of more than $100,000)[5]....do....	1,933.3	217.8	437.4	187.8	781.4	179.6	129.3
Value added by manufacture:[6]							
1963 Census of Manufactures (total for industries covered on MA-175)....million dollars..	24,952.8	3,745.4	5,264.4	2,434.5	9,785.7	1,967.2	1,755.6
MA-175 survey (establishments reporting government shipments of more than $100,000)....do....	22,325.7	2,554.1	5,003.3	1,729.0	9,214.4	1,691.9	2,133.0
Value of shipments:							
1963 Census of Manufactures (total for industries covered on MA-175)....do....	42,262.5	6,836.8	8,775.6	3,811.8	16,882.1	3,375.3	2,580.9
MA-175 survey (establishments reporting government shipments of more than $100,000)....do....	37,363.7	4,746.0	8,243.1	2,528.0	15,964.2	2,952.8	2,929.6

[1]See appendix A for description of industry groups.

[2]Excludes SIC industry 1925, Guided Missiles and Space Vehicles. This industry is included in Aerospace.

[3]MA-175 data includes figures reported by nonmanufacturing facilities of the manufacturing companies canvassed.

[4]The figures shown for the 1963 Census of Manufactures were taken from the Summary Series, General Statistics for Industry Groups and Industries, MC-63(P)3* as released in October, 1965.

[5]The figures shown for the MA-175 Survey differ from those of the 1963 Census of Manufactures because the MA-175 data are subject to sampling errors, the exclusion from this table of those establishments which reported "less than $100,000" or "none" in government shipments, and some differences in industry classification.

[6]Value added by manufacture data for the 1963 Census of Manufactures has been adjusted for changes in finished products and work-in-process inventories. Value added by manufactures data for the MA-175 has not been so adjusted.

TABLE 3. Employees, Value Added, and Value of Shipments and Receipts, by Industry and Agency

Value figures in millions of dollars. The United States total of $37.4 billion, in tables 1, 2, and 3, represents the universe of plants with twenty or more employees with small plants inflated in accordance with their sample weights in the 1962 Annual Survey of Manufactures. Data in tables 4 through 7, aggregating to a United States total of $36.6 billion, are not inflated, i.e., they represent reported data only

Code	Industry	Total value of shipments reported[1]	Establishments reporting shipments to the government of more than $100,000														Establishments reporting shipments of less than $100,000[3]
			Employees (1,000)	Value added by manufacture (unadjusted)[2]	Total value of shipments	Government shipments			Agency destination known					Agency not known		Non-government shipments	
						Total	Prime contract	Sub-contract	DOD		NASA	AEC	Other agencies	Either DOD, NASA, or AEC	Other agencies		
									Prime contract	Sub-contract							
	All industries, total	40,403.8	1,933.3	22,325.7	37,363.7	25,023.1	19,783.2	5,239.9	16,996.2	3,631.1	2,555.4	325.6	692.7	523.7	298.4	12,340.6	3,040.1
	Total	6,144.0	217.8	2,554.1	4,746.0	700.6	483.7	216.9	377.6	138.3	38.2	27.6	77.1	22.6	19.2	4,045.4	1,398.0
3511	Steam engines and turbines	526.1	25.3	316.4	519.1	95.4	47.1	48.3	46.2	39.9	(m)	(n)	(l)	(k)	(n)	423.7	7.0
3531	Construction machinery	2,563.8	67.8	824.9	1,725.8	179.6	136.5	43.1	118.7	37.9	4.8	(k)	13.8	(l)	3.5	1,546.2	838.0
3541	Metal-cutting machine tools	875.9	33.9	383.4	578.9	65.7	25.3	40.4	21.0	13.8	6.4	6.5	11.9	4.3	1.8	513.2	297.0
3542	Metal-forming machine tools	305.9	7.3	85.0	132.9	9.7	2.5	7.2	2.3	3.3	(k)	(h)	(k)	(n)	0.8	123.2	173.0
3571	Computing and related machines	1,872.3	83.5	944.4	1,789.3	350.2	272.3	77.9	189.4	43.4	25.3	(p)	50.2	14.7	(o)	1,439.1	83.0
	Total	8,413.1	437.4	5,003.3	8,243.1	5,912.8	4,187.4	1,725.4	3,843.5	1,352.9	439.0	13.4	157.1	72.0	34.9	2,330.3	170.0
3661	Telephone; telegraph apparatus	1,672.3	83.0	953.4	1,596.3	124.8	102.8	22.0	94.5	14.1	0.6	(h)	(o)	(o)	0.7	1,471.5	76.0
3662	Radio, TV, communications equipment	6,740.8	354.4	4,049.9	6,646.8	5,788.0	4,084.6	1,703.4	3,749.0	1,338.8	438.4	(p)	(s)	(r)	34.2	858.8	94.0
	Total	3,273.1	187.8	1,729.0	2,528.0	1,062.4	294.8	767.6	225.8	221.3	28.4	12.5	186.9	227.8	159.7	1,465.6	745.1
3671	Electron tubes, receiving type	544.9	28.0	290.2	415.8	59.6	30.5	29.1	26.2	3.1	(m)	(k)	(n)	(o)	(p)	356.2	129.1
3672	Cathode ray picture tubes																
3673	Electron tubes, transmitting	278.6	16.2	182.9	272.6	174.0	77.7	96.3	69.7	52.5	(n)	2.3	7.3	(q)	(o)	98.6	6.0
3674	Semiconductors	600.3	47.0	411.8	580.3	213.1	22.3	190.8	19.6	44.6	8.9	(o)	(o)	45.9	79.3	367.2	20.0
3679	Electronic components, n.e.c	1,849.3	96.6	844.1	1,259.3	615.7	164.3	451.4	110.3	121.1	15.3	2.7	168.5	141.2	56.6	643.6	590.0
	Total	16,055.2	781.4	9,214.4	15,964.2	13,873.9	11,895.2	1,978.7	10,045.2	1,475.5	1,991.9	71.4	61.7	173.4	54.8	2,090.3	91.0
3721	Aircraft	6,247.1	297.5	3,055.1	6,209.1	5,152.8	4,887.6	265.2	4,465.0	202.9	414.6	(k)	22.0	45.8	(n)	1,056.3	38.0
1925	Complete guided missiles	3,014.4	146.7	2,530.0	3,014.4	2,998.5	2,920.7	77.8	2,090.6	72.0	831.6	(k)	(m)	(n)	(k)	15.9	-
3722	Aircraft engines and parts	3,885.0	179.9	2,088.6	3,877.0	3,338.3	2,611.5	726.8	2,179.9	540.3	513.5	(q)	(p)	(q)	(q)	538.7	8.0
3723	Aircraft propellers and parts	2,908.7	157.3	1,540.7	2,863.7	2,384.3	1,475.4	908.9	1,309.7	660.3	232.2	39.8	26.4	89.7	26.2	479.4	45.0
3729	Aircraft equipment, n.e.c																
	Total	3,059.8	179.6	1,691.9	2,952.8	2,233.2	2,066.4	166.8	1,795.1	135.1	9.5	137.2	148.1	6.1	2.1	719.6	107.0
3731	Ship building and repairing	1,554.7	100.4	891.0	1,467.4	1,022.4	963.6	58.8	832.6	42.1	1.4	(o)	134.1	(n)	1.6	(u)	87.3
19 (except 1925)	Ordnance, except guided missiles	1,505.1	79.2	800.9	1,485.4	1,210.8	1,102.8	108.0	962.5	93.0	8.1	(s)	14.0	(m)	0.5	(t)	19.7
	Total	2,352.5	80.6	1,315.5	1,843.5	505.1	329.9	175.2	256.0	123.0	28.9	10.6	55.0	19.9	11.7	1,338.4	509.0
3811	Scientific instruments	417.8	16.6	189.6	282.8	198.1	108.2	89.9	96.1	65.3	15.7	(k)	3.5	13.6	(n)	84.7	135.0
38211	Aircraft engine instruments, except flight	334.1	19.1	172.8	254.1	119.0	68.1	50.9	55.2	36.7	6.7	4.8	11.4	3.0	1.2	135.1	80.0
38216	Other mechanical and controlling instruments (including nuclear radiation)																
3831	Optical instruments and lenses																
3861	Photographic equipment	1,600.6	44.9	953.1	1,306.6	188.0	153.6	34.4	104.7	21.0	6.5	(o)	40.1	3.3	(p)	1,118.6	294.0
	Miscellaneous industries[4]	1,106.1	48.7	817.5	1,086.1	735.1	525.8	209.3	453.0	185.0	19.5	52.9	6.8	1.9	16.0	351.0	20.0

Note: See appendix A for definitions of letter symbols representing range of figures.

- Represents zero. n.e.c. Not elsewhere classified.

[1] See table 1 footnote 1.

[2] See table 2 footnote 6.

[3] See table 1 footnote 2.

[4] Includes selected nonmanufacturing facilities of the manufacturing companies canvassed, and some establishments initially classified in the industries covered by this survey but which have since been reclassified to other industries.

TABLE 4. Employees (Estimated), and Value of Shipments and Receipts, by Product Class and Agency

The United States total of $37.4 billion, in tables 1, 2, and 3, represents the universe of plants with twenty or more employees with small plants inflated in accordance with their sample weights in the 1962 Annual Survey of Manufactures. Data in tables 4 through 7, aggregating to a United States total of $36.6 billion, are not inflated, i.e., they represent reported data only

Product class code	Product class[1]	Total Employees (1,000)	Total value of shipments (million dollars)	DOD		NASA		AEC		Other agencies[2]		Nongovernment	
				Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)
	Total	1,881.7	36,612.6	1,025.3	20,362.7	121.0	2,417.0	21.9	319.0	78.3	1,284.9	635.2	12,229.0
3511	Steam engines; steam,gas,and hydraulic turbines; and steam,gas,and hydraulic turbine generator set units	22.9	466.7	4.4	75.4	(a)	(i)	-	-	(a)	(n)	18.2	386.6
3531	Construction machinery and equipment	56.2	1,431.1	3.4	75.0	0.1	1.6	-	-	0.5	11.1	52.2	1,343.4
35311	Contractors' off-highway wheel tractors, except parts and attachments	1.2	41.7	(a)	(k)	(a)	(i)	-	-	(a)	(j)	1.2	41.0
35312	Tracklaying type tractors, except parts and attachments	10.7	277.3	0.4	8.6	-	-	-	-	0.1	2.4	10.2	266.3
35313	Parts and attachments for tracklaying and contractors' off-highway wheel tractors	8.5	224.1	(b)	(p)	-	-	-	-	(a)	(l)	7.9	209.0
35314	Power cranes (inc. locomotive, full circle, revolving with booms) draglines, shovels and parts	8.7	182.0	0.6	10.4	(a)	(m)	-	-	(a)	(n)	7.9	168.1
35316	Mixers, pavers, and related equipment, excluding parts	2.2	45.1	(a)	(k)	-	-	-	-	(a)	(n)	2.1	42.5
35317	Integral tractor-shovel loaders (wheel and track-laying types), including parts	8.4	247.1	(a)	(p)	-	-	-	-	(a)	(m)	8.0	235.2
35318	Scrapers, graders, rollers and off-highway trucks, trailers, and wagons, excluding parts	9.0	245.4	(a)	(o)	-	-	-	-	(a)	(m)	8.6	235.9
35319	Other construction machinery and equipment, including construction machinery parts, n.e.c.	7.5	168.4	1.1	21.5	(a)	(i)	-	-	(a)	(m)	6.3	145.4
3541	Machine tools, metal cutting types	25.9	426.9	1.5	24.1	0.4	5.7	0.5	6.4	0.4	6.8	23.1	383.9
35411	Boring machines	3.4	58.8	0.1	2.1	0.1	2.6	0.1	0.9	0.2	3.1	2.9	50.1
35412	Drilling machines												
35413	Gear cutting and finishing machines	6.9	98.1	0.1	1.7	(a)	(l)	(a)	(j)	0.1	1.4	6.6	94.3
35414	Grinding and polishing machines (excluding gear tooth grinding, honing, lapping, polishing and buffing machines)												
35415	Lathes	6.9	125.2	0.4	6.6	(a)	(l)	0.2	3.2	(a)	(l)	6.3	114.0
35416	Milling machines	3.7	66.8	0.6	11.8	(a)	(m)	(a)	(k)	(a)	(l)	2.9	52.4
35418	Other machine tools (including those designed primarily for home workshops, laboratories, etc.)	1.5	20.6	0.1	0.8	(a)	(i)	(a)	(n)	(a)	(k)	1.2	17.2
35419	Parts for metal cutting type machine tools, sold separately, and rebuilt machine tools	3.5	57.4	(a)	(m)	-	-	-	-	(a)	(l)	3.2	55.9
3542	Machine tools, metal forming types	5.9	106.6	0.1	2.3	(a)	(k)	-	-	(a)	(n)	5.6	101.9
35421	Punching, shearing, bending and forming machines	1.5	27.1	(a)	(m)	(a)	(i)	-	-	0.1	1.0	1.3	24.4
35422	Presses, including forging presses	3.2	57.8	(a)	(l)	(a)	(i)	-	-	(a)	(l)	3.1	56.5
35423	Other metal forming machine tools, including forging machines	1.2	21.7	(a)	(j)	-	-	-	-	(a)	0.5	1.2	21.0
35424	Parts for metal forming machine tools and rebuilt metal forming machinery												
3571	Computing and accounting machines, including cash registers	77.1	1,619.5	7.7	189.2	(c)	(q)	(b)	(p)	3.3	70.7	64.6	1,317.7
35711	Electronic data processing machines, and associated equipment, except typewriters	33.1	742.9	4.7	119.4	(b)	(p)	(a)	(p)	1.4	29.6	26.1	565.1
35712	Computing and accounting machines, including cash registers	44.0	876.6	3.0	69.8	(b)	(p)	(a)	(l)	1.9	41.1	38.5	752.6
3661	Telephone and telegraph apparatus	74.0	1,392.8	5.3	85.9	(a)	(l)	-	-	0.8	13.1	(i)	(v)
3662	Radio and television transmitting, signaling, and detection equipment and apparatus	266.5	4,966.6	213.2	3,978.9	10.6	184.5	0.5	10.4	10.5	187.2	31.7	605.6
36621	Commercial, industrial, and military electronic communication equipment, except broadcast equipment, space satellite-borne communications equipment (complete package)	41.3	855.1	28.6	576.4	(c)	(p)	(a)	(n)	1.3	27.7	10.3	231.8
36622	Radio and television broadcast equipment, and closed circuit systems	4.3	80.0	0.7	11.5	(a)	(n)	(a)	(k)	0.2	3.0	3.3	62.7

See footnotes at end of table.

TABLE 4. Employees (Estimated), and Value of Shipments and Receipts, by Product Class and Agency—Continued

Product class code	Product class[1]	Total Employees (1,000)	Total value of shipments (million dollars)	DOD		NASA		AEC		Other agencies[2]		Nongovernment	
				Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)
3662	Radio and television transmitting, signaling, and detection equipment and apparatus—Continued												
36623	Intercommunication equipment (except telephone and telegraph) and electric alarm and signal systems and devices	4.6	79.0	1.5	30.9	-	-	(a)	(i)	(a)	(m)	3.0	46.7
36624	Electronic navigational aids (except missile-borne and space vehicle basin equipment)	49.5	980.3	43.4	853.3	(b)	(p)	(a)	(k)	1.7	40.1	3.7	74.2
36625	Electronic search and detection apparatus, including radar, infrared and sonar	84.5	1,528.3	74.4	1,345.2	1.8	30.7	(a)	(k)	(e)	(r)	5.0	93.8
36626	Electronic military, industrial, and commercial equipment, n.e.c.	33.7	558.7	22.3	381.9	2.2	38.4	0.5	8.8	2.9	41.8	5.8	87.8
36627	Space satellite-borne communications systems (complete package)	0.4	7.1	0.2	3.6	(a)	(k)	-	-	-	-	(a)	(n)
36628	Missile-borne and space vehicle-borne navigation and guidance systems and equipment	48.2	878.1	42.1	776.1	4.8	81.2	(a)	(k)	1.0	14.9	(a)	(o)
36710	Receiving type electron tubes, except cathode ray	20.0	257.0	1.3	15.6	(a)	(i)	(a)	(k)	1.2	13.4	17.5	227.8
36720	Cathode ray picture tubes, including rebuilt tubes	5.3	115.7	(a)	(j)	-	-	-	-	-	-	(f)	(s)
36730	Transmitting, industrial, and special purpose electron tubes (except X-ray)	16.1	255.7	7.3	119.7	0.2	2.9	0.2	2.3	2.6	45.4	5.8	85.5
36740	Solid state semiconductor devices	41.7	500.7	2.9	33.9	0.3	3.6	0.1	0.7	10.4	130.6	28.0	331.8
3679	Electronic components and accessories, n.e.c.	81.2	1,098.4	16.0	227.3	0.8	11.6	0.4	5.3	15.0	189.9	49.0	664.3
36792	Capacitors for electronic applications	18.5	194.9	0.9	9.8	0.1	0.9	0.1	0.6	3.3	36.4	14.1	147.2
36793	Resistors for electronic applications	17.7	233.4	1.8	22.7	(a)	(m)	(a)	(k)	3.8	50.1	11.9	158.5
36794	Coils, transformers, reactors and chokes for electronic applications	6.0	68.0	1.4	16.0	-	-	-	-	1.3	14.7	3.3	37.3
36795	Other electronic components and accessories, n.e.c., including parts for electron tubes (except glass blanks)	39.0	602.1	11.9	178.8	(b)	(o)	(a)	(n)	6.6	88.7	19.7	321.3
3721	Aircraft	216.0	4,314.3	173.2	3,466.9	0.8	14.8	-	-	1.9	31.7	40.1	800.9
37211	Complete aircraft, military type	120.4	2,563.0	119.4	2,545.1	(a)	(m)	-	-	(b)	(p)	(a)	(n)
37212	Complete aircraft, personal and utility type	7.5	123.2	(a)	(j)	(a)	(m)	-	-	(a)	(i)	7.4	121.3
37213	Complete aircraft, commercial transport (airline passenger and cargo service)	55.4	1,036.0	(h)	(t)	(a)	(n)	-	-	(a)	2.6	30.0	626.1
37214	Modifications, conversions and overhaul of previously accepted aircraft												
37216	Other aeronautical services for aircraft	32.7	592.1	28.8	516.2	0.4	8.2	-	-	1.0	17.9	2.5	49.8
3722	Aircraft engines and engine parts	162.0	3,379.2	114.7	2,412.1	24.8	510.2	0.5	8.6	3.7	68.2	18.3	380.0
37221	Aircraft engines for U.S. military customers	56.6	1,249.5	47.7	1,052.1	(c)	(q)	(a)	(k)	(a)	(o)	7.0	156.1
37222	Aircraft engines for other than U.S. military customers												
37223	Research and development on aircraft engines												
37224	Aircraft engine parts and accessories	39.5	778.6	26.2	516.3	(a)	(k)	(a)	(k)	2.5	43.6	10.8	218.2
37225	Complete missile or space vehicle engines and/or propulsion units	24.0	518.1	17.0	365.4	(f)	(s)	(a)	(k)	(a)	(i)	(a)	(l)
37226	Research and development on complete missile or space vehicle engines and/or propulsion units	34.4	693.9	20.0	408.0	14.1	281.3	(a)	(n)	(a)	(i)	(a)	(m)
37227	All other services on complete missile or space vehicle engines and/or propulsion units	7.5	139.1	3.8	70.1	2.2	43.6	0.3	4.6	0.9	17.4	(a)	(n)
37228	Missile and space vehicle engine and/or propulsion unit parts or accessories												
37230	Aircraft propellers and parts	5.7	99.1	(f)	(r)	(a)	(k)	-	-	(a)	(l)	0.7	14.0
3729	Aircraft parts and auxiliary equipment, n.e.c.	172.6	3,187.8	123.4	2,317.5	14.7	224.8	2.7	43.7	8.5	138.4	23.3	463.4
37291	Other aircraft parts and auxiliary equipment	102.9	1,890.2	76.2	1,399.8	1.0	19.4	0.1	1.1	5.8	100.2	19.8	369.7
37292	Guided missile components and subassemblies, n.e.c.	46.9	883.2	31.9	625.6	8.4	120.1	0.6	9.4	(e)	(q)	(e)	(r)
37293	Research and development on aircraft parts	3.7	67.8	3.3	59.3	(a)	(n)	(a)	(m)	(a)	(k)	(a)	(m)
37294	Research and development on missile parts and components, n.e.c.	19.1	346.5	12.0	232.8	(f)	(r)	(c)	(q)	0.1	1.0	(a)	(l)

See footnotes at end of table.

TABLE 4. Employees (Estimated), and Value of Shipments and Receipts, by Product Class and Agency—Continued

Product class code	Product class[1]	Total Employees (1,000)	Total value of shipments (million dollars)	DOD		NASA		AEC		Other agencies[2]		Nongovernment	
				Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)
1925	Guided missiles and space vehicles, completely assembled	194.8	3,961.8	136.3	2,761.1	57.5	1,185.3	(a)	(k)	(a)	(l)	0.9	14.3
19251	Guided missiles, complete	77.7	1,630.7	53.7	1,092.5	23.5	530.5	(a)	(k)	(a)	(i)	(b)	(o)
19253	Research and development on guided missiles (complete)	76.3	1,507.8	45.2	925.0	(h)	(u)	-	-	-	-	(a)	(o)
19255	All other services on complete missiles and space vehicles	40.8	823.3	37.4	743.6	(e)	(r)	-	-	(a)	(l)	-	-
3731	Ship building and repairing	92.5	1,343.6	58.2	836.0	-	-	(a)	(m)	7.7	126.0	(h)	(t)
37311	Nonpropelled ships (barges, etc.), new construction	63.8	936.4	45.5	645.9	-	-	-	-	6.0	101.0	12.3	189.3
37312	Self-propelled U.S. military ships, new construction												
37313	Self-propelled nonmilitary ships, new construction												
37314	Ship repair, U.S. military	13.2	198.7	12.5	187.4	-	-	-	-	0.6	10.5	0.1	0.8
37316	Repair of nonmilitary ships	15.5	208.5	(a)	(n)	-	-	(a)	(m)	1.1	14.5	14.1	189.8
19110	Guns, howitzers, mortars, and related equipment over 30 mm (or over 1.18 inches)	14.6	262.6	14.3	256.4	0.2	4.4	(a)	(l)	(a)	(k)	(a)	(l)
1929	Ammunition, except for small arms, not elsewhere classified												
19310	Tanks and tank components	10.5	368.7	9.8	339.9	-	-	-	-	(a)	(l)	(l)	(q)
19410	Sighting and fire-control equipment made from purchased lenses	7.4	121.6	7.2	118.4	-	-	(a)	(l)	(a)	(l)	(a)	(m)
1951	Small arms, 30 mm and under (or 1.18 inches and under)	9.2	121.0	(e)	(r)	-	-	-	-	(a)	(k)	4.9	63.1
19610	Small arms ammunition 30 mm and under (or 1.18 inches and under)	8.2	178.6	(e)	(r)	-	-	-	-	(a)	(k)	4.4	93.6
19990	Ordnance and accessories, n.e.c	19.9	263.5	6.6	119.5	0.5	9.0	11.8	117.6	0.6	11.8	0.4	5.6
3811	Engineering, laboratory, and scientific and research instruments and associated equipment	31.5	583.4	20.9	396.0	(c)	(q)	(a)	(k)	2.6	42.7	6.3	116.7
38111	Aircraft flight, nautical, and navigational instruments and automatic pilots	28.3	531.2	20.3	384.3	1.5	26.5	-	-	2.1	34.8	4.4	85.6
38112	Laboratory and scientific instruments	2.8	44.7	(b)	(p)	(a)	(m)	(a)	(k)	0.4	6.9	(c)	(q)
38113	Surveying and drafting instruments and laboratory furniture	0.4	7.5	(a)	(l)	(a)	(j)	-	-	0.1	1.0	(a)	(o)
38211	Aircraft engine instruments, except flight	2.8	42.5	1.4	19.9	(a)	(j)	-	-	(a)	(n)	1.1	17.7
38216	Other mechanical measuring and controlling instruments	1.3	16.0	0.5	5.4	(a)	(k)	(a)	(k)	(a)	(n)	0.4	5.2
3831	Optical instruments and lenses	9.3	139.6	3.2	52.9	0.3	5.8	(a)	(k)	0.3	4.4	5.4	76.2
38311	Optical instruments and lenses, except sighting and fire-control equipment	7.8	116.8	2.0	34.4	(a)	(o)	(a)	(j)	0.3	4.4	5.1	72.7
38312	Sighting and fire-control equipment made from lenses, prisms, etc., produced in this plant	1.5	22.8	1.2	18.5	(a)	(l)	(a)	(j)	-	-	0.3	3.5
3861	Photographic equipment and supplies	39.0	1,137.1	3.2	77.8	(a)	(o)	(a)	(o)	1.2	29.7	34.5	1,018.2
38611	Still picture equipment	6.7	124.5	1.2	19.7	(a)	(k)	-	-	(a)	(m)	5.3	102.7
38612	Photocopying, microfilming, blueprinting, Vandyke, and whiteprinting equipment	2.9	155.2	(a)	(n)	(a)	(n)	(a)	(n)	(a)	(o)	2.5	138.1
38613	Motion picture equipment	4.7	73.1	0.2	4.2	(a)	(j)	-	-	0.2	2.7	4.3	66.1
38615	Photographic sensitized film and plates	21.9	680.3	1.6	45.1	(a)	1.8	(a)	(m)	(a)	(p)	(g)	(u)
38616	Sensitized photographic paper and cloth, silver halide type												
38617	Sensitized photographic paper and cloth, other than silver halide type	2.8	103.9	0.1	4.2	(a)	0.7	(a)	0.7	0.1	3.6	2.6	94.7
38618	Prepared photographic chemicals												

See footnotes at end of table.

TABLE 4. Employees (Estimated), and Value of Shipments and Receipts, by Product Class and Agency—Continued

Product class code	Product class[1]	Total Employees (1,000)	Total value of shipments (million dollars)	DOD		NASA		AEC		Other agencies[2]		Nongovernment	
				Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)
	Other classes of products and services.....	189.3	4,454.5	85.7	2,116.4	10.7	205.8	4.8	96.0	7.5	143.7	80.6	1,892.6
11111	Research and development[3].....	9.8	339.5	9.4	324.2	0.1	0.7	-	-	0.1	2.7	0.3	11.9
93000	Receipts for work or services performed by you for others on their materials.....	10.5	141.2	5.6	64.9	0.9	13.4	0.1	0.8	1.0	17.9	3.0	44.2
99980	Other receipts, particulary research and development not identified as to specific product class, and receipts for installation or testing.....	93.0	1,716.7	56.8	1,059.8	7.4	146.3	4.0	79.1	3.5	58.7	21.3	372.8
99989	Shipments of products bought and resold without further manufacture, processing, or assembly.....	([5])	945.4	([5])	440.6	([5])	1.3	([5])	3.0	([5])	13.6	([5])	486.9
	Other[4].....	76.0	1,311.7	13.9	226.9	2.4	44.1	0.8	13.1	2.9	50.8	56.0	976.8

Note: See appendix A for definitions of letter symbols representing range of figures.

- Represents zero.
[1]The 4-digit codes shown represent the totals for the 5-digit product class codes.
[2]Includes shipments to other federal agencies and to DOD, NASA, or AEC if the reporting establishment did not know the ultimate destination of the subcontracted shipments.
[3]Represents figures reported by nonmanufacturing facilities of the manufacturing companies canvassed.
[4]Shipments by establishments reporting in this survey of classes of products other than those listed above.
[5]For purposes of distributing the total employment in the covered industries by product class and procuring agency, the value of resales was excluded from the computation and, in effect, the employment for such activity was treated as zero.

TABLE 5. Value of Shipments and Receipts, by Geographic Areas, Industry Groups, and Agency

Millions of dollars. The United States total of $37.4 billion, in tables 1, 2, and 3, represents the universe of plants with twenty or more employees with small plants inflated in accordance with their sample weights in the 1962 Annual Survey of Manufactures. Data in tables 4 through 7, aggregating to a United States total of $36.6 billion, are not inflated, i.e., they represent reported data only

Geographic area and industry group[1]	Total	Government			Non-government	Shipments to DOD (included in total)
		Total	Prime contract	Sub-contract		
United States, total	36,612.6	24,383.6	19,515.9	4,867.7	12,229.0	20,362.7
Selected machinery	4,722.7	690.3	475.7	214.6	4,032.4	507.9
Communication equipment	7,870.7	5,559.8	3,988.2	1,571.6	2,310.9	4,991.1
Electronic components and accessories	2,244.4	843.8	268.0	575.8	1,400.6	437.0
Aerospace industries	15,941.2	13,852.7	11,893.6	1,959.1	2,088.6	11,512.6
Shipbuilding and repairing and ordnance	2,941.0	2,226.2	2,060.3	165.9	714.8	1,924.5
Selected instruments and miscellaneous industries	2,892.6	1,210.9	830.1	380.8	1,681.7	989.6
Northeast, total	12,176.2	7,293.7	5,673.1	1,620.6	4,882.5	6,343.3
Selected machinery	1,507.7	204.0	130.7	73.3	1,303.7	140.8
Communication equipment	3,171.0	2,434.3	1,879.7	554.6	736.7	2,177.7
Electronic components and accessories	1,146.8	367.2	117.1	250.1	779.6	193.5
Aerospace industries	3,360.3	2,909.0	2,455.5	453.5	451.4	2,633.9
Shipbuilding and repairing and ordnance	836.2	593.0	536.3	56.7	243.2	546.3
Selected instruments and miscellaneous industries	2,154.2	786.2	553.8	232.4	1,368.0	651.1
New England	3,818.1	2,618.7	2,100.0	518.7	1,199.4	2,338.4
Selected machinery	318.8	65.5	35.5	30.0	253.3	50.6
Communication equipment	891.3	619.6	497.5	122.1	271.7	563.6
Electronic components and accessories	363.2	136.4	37.7	98.7	226.8	65.5
Aerospace industries	1,617.4	(v)	1,142.7	(t)	(t)	1,229.1
Shipbuilding and repairing and ordnance	519.9	(t)	362.0	(q)	(s)	373.6
Selected instruments and miscellaneous industries	107.5	60.3	24.6	35.7	47.2	56.0
Middle Atlantic	8,358.1	4,675.0	3,573.1	1,101.9	3,683.1	4,004.9
Selected machinery	1,188.9	138.5	95.2	43.3	1,050.4	90.2
Communication equipment	2,279.7	1,814.8	1,382.2	432.6	464.9	1,614.1
Electronic components and accessories	783.6	230.8	79.4	151.4	552.8	128.0
Aerospace industries	1,742.9	(v)	1,312.8	(t)	(s)	1,404.8
Shipbuilding and repairing and ordnance	316.3	(t)	174.4	(q)	(s)	172.7
Selected instruments and miscellaneous industries	2,046.8	725.9	529.2	196.7	1,320.9	595.1
North Central, total	9,012.3	4,430.0	3,439.6	990.4	4,582.3	3,659.8
Selected machinery	2,714.4	354.3	259.8	94.5	2,360.1	259.8
Communication equipment	1,936.1	863.3	580.5	282.8	1,072.8	754.2
Electronic components and accessories	304.7	54.8	15.5	39.3	249.9	14.9
Aerospace industries	2,958.6	2,434.5	1,969.0	465.5	524.1	2,036.3
Shipbuilding and repairing and ordnance	707.4	586.5	536.0	50.5	120.9	494.4
Selected instruments and miscellaneous industries	391.1	136.6	78.8	57.8	254.5	100.2
East North Central	6,431.4	2,552.0	1,839.9	712.1	3,879.4	2,298.9
Selected machinery	2,338.8	(s)	(s)	(r)	(v)	(s)
Communication equipment	1,440.8	(u)	(t)	(s)	(u)	(u)
Electronic components and accessories	(t)	(q)	10.2	(q)	195.9	12.0
Aerospace industries	1,640.1	(v)	(u)	370.3	(T)	1,136.5
Shipbuilding and repairing and ordnance	425.3	337.1	296.2	40.9	88.2	331.6
Selected instruments and miscellaneous industries	(t)	(s)	55.9	(q)	252.2	75.0
West North Central	2,580.8	1,878.0	1,599.8	278.2	702.8	1,360.9
Selected machinery	375.6	(s)	(s)	(q)	(t)	(s)
Communication equipment	495.3	(t)	(s)	(s)	(t)	(s)
Electronic components and accessories	(r)	(q)	5.4	(p)	53.9	2.9
Aerospace industries	1,318.5	(v)	(v)	95.2	(s)	899.8
Shipbuilding and repairing and ordnance	282.0	249.3	239.8	(o)	32.7	162.8
Selected instruments and miscellaneous industries	(q)	(q)	22.9	(o)	2.3	25.2
South, total	4,520.9	3,526.6	2,964.5	561.9	994.3	2,889.3
Selected machinery	111.4	17.1	15.5	1.6	94.3	11.7
Communication equipment	1,199.8	851.4	660.0	191.4	348.4	756.0
Electronic components and accessories	335.2	147.3	35.6	111.7	187.9	83.8
Aerospace industries	2,036.4	1,929.5	1,721.9	207.6	106.9	1,548.4
Shipbuilding and repairing and ordnance	688.3	449.7	431.0	18.7	238.6	369.0
Selected instruments and miscellaneous industries	149.8	131.6	100.5	31.1	18.2	120.4

See footnote at end of table.

TABLE 5. Value of Shipments and Receipts, by Geographic Areas, Industry Groups and Agency

(Millions of dollars)

Geographic area and industry group[1]	Total	Government			Non-government	Shipments to DOD (included in total)
		Total	Prime contract	Sub-contract		
South—Continued						
South Atlantic	2,587.3	2,046.8	1,714.9	331.9	540.5	1,805.9
Selected machinery	(r)	(p)	(p)	(l)	(r)	(p)
Communication equipment	820.5	595.4	442.9	152.5	225.1	524.5
Electronic components and accessories	161.5	97.4	26.6	70.8	64.1	76.4
Aerospace industries	982.6	941.3	876.0	65.3	41.3	840.9
Shipbuilding and repairing and ordnance	430.4	302.0	289.2	12.8	128.4	264.4
Selected instruments and miscellaneous industries	(s)	(r)	(r)	(q)	(o)	(r)
East South Central	461.3	331.7	254.7	77.0	128.6	218.3
Selected machinery	(o)	(n)	(n)	(k)	(n)	(k)
Communication equipment	53.5	(q)	(q)	(o)	(o)	(q)
Electronic components and accessories	(r)	(p)	(o)	(o)	(r)	7.4
Aerospace industries	224.3	(t)	142.3	(r)	(q)	103.7
Shipbuilding and repairing and ordnance	107.0	65.7	(r)	(n)	41.3	60.9
Selected instruments and miscellaneous industries	(m)	(m)	(m)	-	-	-
West South Central	1,472.5	1,148.3	995.0	153.3	324.2	865.1
Selected machinery	(p)	(m)	(m)	0.7	18.0	(k)
Communication equipment	325.8	(t)	(s)	(q)	(s)	(s)
Electronic components and accessories	(s)	(q)	(m)	(q)	(r)	-
Aerospace industries	829.6	(u)	703.7	(r)	(q)	603.8
Shipbuilding and repairing and ordnance	150.9	82.1	(r)	(n)	68.8	43.8
Selected instruments and miscellaneous industries	40.9	(q)	(q)	(m)	(o)	(q)
West, total	10,903.2	9,133.3	7,438.5	1,694.8	1,769.9	7,470.3
Selected machinery	389.2	114.9	69.6	45.3	274.3	95.6
Communication equipment	1,563.8	1,410.7	868.0	542.7	153.1	1,303.2
Electronic components and accessories	457.7	274.5	99.7	174.8	183.2	144.8
Aerospace industries	7,585.9	6,579.6	5,747.1	832.5	1,006.3	5,294.1
Shipbuilding and repairing and ordnance	709.1	597.1	557.0	40.1	112.0	514.8
Selected instruments and miscellaneous industries	197.5	156.5	97.1	59.4	41.0	117.8
Mountain	1,318.8	1,094.2	917.5	176.7	224.6	1,017.7
Selected machinery	(s)	(r)	(q)	(p)	(r)	(r)
Communication equipment	56.6	(r)	(q)	30.0	(m)	40.7
Electronic components and accessories	67.5	(q)	(n)	18.8	(q)	7.8
Aerospace industries	931.9	834.7	752.5	82.2	97.2	829.6
Shipbuilding and repairing and ordnance	(q)	(q)	(q)	(o)	(o)	(n)
Selected instruments and miscellaneous industries	82.5	(r)	(r)	(q)	(o)	74.4
Pacific	9,584.4	8,039.2	6,521.0	1,518.2	1,545.2	6,452.6
Selected machinery	(t)	(q)	(q)	(q)	(t)	(q)
Communication equipment	1,507.2	(v)	(u)	512.7	(s)	1,262.5
Electronic components and accessories	390.2	(t)	(r)	156.0	(s)	137.0
Aerospace industries	6,654.0	5,745.0	4,994.6	750.4	909.0	4,464.5
Shipbuilding and repairing and ordnance	(u)	(u)	(u)	(q)	(s)	(u)
Selected instruments and miscellaneous industries	115.0	(r)	(q)	(q)	(q)	43.4

[1]See Appendix A for description of industry groups.

TABLE 6. Employees, Value Added and Value of Shipments and Receipts, by Geographic Areas and Agency

Value figures in millions of dollars. The United States total of $37.4 billion, in tables 1, 2, and 3, represents the universe of plants with twenty or more employees with small plants inflated in accordance with their sample weights in the 1962 Annual Survey of Manufactures. Data in tables 4 through 7, aggregating to a United States total of $36.6 billion, are not inflated, i.e., they represent reported data only

Geographic area[1]	Total employees (1,000)	Value added by manufacture	Total value of shipments	Government shipments							Non-government shipments
				Total	By level of contract		By agency				
					Prime	Sub-contract	DOD	NASA	AEC	Other agencies[2]	
United States, total	1,881.7	21,841.9	36,612.6	24,383.6	19,515.9	4,867.7	20,362.7	2,417.0	319.0	1,284.9	12,229.0
Maine	4.6	43.1	83.3	(r)	(r)	(q)	(r)	-	-	(p)	(o)
New Hampshire	7.3	52.0	86.4	57.1	(q)	(p)	(q)	(k)	(h)	12.0	29.2
Lawrence-Haverhill, Mass.-N.H. (See Massachusetts)											
Vermont	5.9	62.8	95.0	(q)	(q)	(o)	(q)	(i)	(h)	1.5	(q)
Massachusetts	90.5	934.0	1,586.4	949.4	714.1	235.3	836.7	26.8	6.0	80.0	637.0
Boston	52.4	557.2	952.0	717.5	542.9	174.6	640.0	12.4	5.2	59.8	234.6
Lawrence-Haverhill, Mass.-N.H.	(b)	(n)	(o)	(l)	(j)	(l)	(j)	-	-	(l)	(o)
Providence-Pawtucket-Warwick, R.I.-Mass. (See Rhode Island)											
Springfield-Chicopee-Holyoke, Mass.-Conn.	4.9	44.3	67.0	17.3	9.8	7.5	13.9	(j)	(j)	(n)	49.7
Worcester	2.8	28.5	39.0	(o)	(o)	(m)	(o)	-	-	(m)	(q)
Rhode Island	1.9	16.8	29.4	(p)	(p)	1.7	(p)	-	-	(l)	(p)
Providence-Pawtucket-Warwick, R.I.-Mass.	(b)	(o)	(o)	(m)	(k)	(m)	(m)	-	-	(k)	(o)
Connecticut	103.8	1,081.2	1,937.6	1,475.7	1,234.9	240.8	1,341.4	47.9	(q)	(r)	461.9
Bridgeport	19.7	226.6	380.6	(t)	(t)	30.6	(t)	(n)	(j)	20.1	(r)
Hartford	(h)	(t)	(u)	(u)	(u)	(r)	(u)	(q)	(m)	4.7	(s)
New Haven	(f)	(r)	(s)	(s)	(s)	(n)	(s)	(n)	-	(l)	(r)
Springfield-Chicopee-Holyoke, Mass.-Conn. (See Massachusetts)											
Waterbury	1.0	7.8	13.6	10.6	(n)	(o)	(o)	-	-	(n)	(n)
New York	229.2	3,193.0	5,049.0	2,870.4	2,308.1	562.3	2,498.7	150.8	(r)	(s)	2,178.5
Albany-Schenectady-Troy	(g)	(s)	(t)	(r)	(r)	(p)	(q)	(n)	(q)	(n)	(s)
Binghampton, N.Y.-Pa.	20.3	184.9	411.2	(s)	110.6	(r)	136.7	(q)	-	10.4	(t)
Buffalo	11.3	110.7	178.3	131.7	50.8	80.9	118.5	(o)	(k)	4.3	46.6
New York	90.2	1,224.2	2,005.3	1,836.3	1,630.2	206.1	1,689.6	88.6	1.3	56.7	169.0
Rochester	46.8	926.1	1,218.9	178.8	154.7	24.1	125.8	(o)	(o)	41.6	1,040.1
Syracuse	(g)	(s)	(s)	(s)	(s)	(q)	(s)	(l)	-	(o)	(q)
Utica-Rome	11.6	163.7	244.5	(r)	50.7	(q)	98.2	(l)	(j)	(j)	(s)
New Jersey	107.2	1,241.3	1,865.4	1,109.6	736.9	372.7	928.7	(r)	(m)	115.3	755.8
Allentown-Bethlehem-Easton, Pa.-N.J. (See Pennsylvania)											
Jersey City	15.5	155.6	250.3	20.5	10.7	9.9	12.5	(k)	-	(o)	229.7
Newark	19.2	195.9	316.9	174.8	106.6	68.2	139.7	(o)	(m)	25.6	142.1
Paterson-Clifton-Passaic	30.4	356.7	529.0	438.6	351.4	87.2	369.6	(p)	-	(r)	90.4
Philadelphia, Pa.-N.J. (See Pennsylvania)											
Wilmington, Del.-N.J.-Md. (See Delaware)											
Pennsylvania	81.2	875.9	1,443.7	694.9	528.1	166.9	577.7	(q)	(n)	78.8	748.7
Allentown-Bethlehem-Easton, Pa.-N.J..	(b)	(r)	(r)	(o)	(m)	(o)	(o)	-	-	(j)	(r)
Binghamton, N.Y.-Pa. (See New York)											
Lancaster	(e)	(r)	(s)	(p)	(p)	(o)	(o)	(l)	(j)	(o)	(r)
Philadelphia, Pa.-N.J.	58.3	605.7	998.0	637.5	527.3	110.2	544.5	(q)	(n)	57.1	360.4
Pittsburgh	4.0	42.6	75.6	15.0	(p)	(n)	14.1	(l)	(j)	(k)	60.5
Reading	(e)	(q)	(q)	(q)	(o)	(q)	(q)	-	-	-	(p)
Wilkes-Barre-Hazleton	(b)	(o)	(p)	(o)	(k)	(o)	(o)	(j)	-	(n)	(n)
York	2.8	35.8	80.6	(q)	(q)	5.3	(q)	-	(m)	(j)	(q)
Ohio	103.2	1,154.8	2,124.1	1,150.4	845.0	305.4	1,084.5	(p)	(q)	29.0	973.7
Akron	(f)	(r)	(s)	(r)	(r)	(q)	(r)	(m)	-	(k)	(q)
Cincinnati, Ohio-Ky.-Ind.	26.1	316.3	619.2	427.0	(t)	(q)	(t)	3.9	10.2	(p)	192.2
Cleveland	18.4	197.5	356.8	239.5	158.5	81.1	219.6	(n)	(o)	7.5	117.3
Columbus	(g)	204.1	379.0	(s)	(s)	15.8	(s)	(n)	-	(m)	(t)
Dayton	(g)	(s)	(t)	25.3	17.5	7.8	(q)	-	-	(n)	(t)
Toledo, Ohio-Mich	1.2	11.2	18.7	(p)	(p)	(m)	(p)	-	-	(m)	(o)
Youngstown-Warren	(b)	(o)	(p)	(p)	-	(p)	(p)	-	(k)	-	(n)
Indiana	44.4	473.7	870.0	513.1	368.4	144.7	(t)	(n)	(o)	35.7	356.9
Cincinnati, Ohio-Ky.-Ind. (See Ohio)											
Gary-Hammond-East Chicago	(a)	(n)	(n)	(n)	-	(n)	(l)	(k)	(j)	(m)	(n)
Indianapolis	24.6	293.7	533.4	254.9	(t)	(r)	(t)	(m)	(o)	(p)	278.4
Louisville, Ky.-Ind. (See Kentucky)											
Illinois	105.7	1,265.1	2,297.5	382.3	240.1	142.2	314.0	(o)	(n)	57.7	1,915.3
Chicago	66.9	752.8	1,369.1	236.6	155.3	81.2	190.3	1.7	0.4	44.1	1,132.5

See footnotes at end of table.

TABLE 6. Employees, Value Added and Value of Shipments and Receipts, by Geographic Areas and Agency—Continued

(Value figures in millions of dollars)

Geographic area [1]	Total employees (1,000)	Value added by manufacture	Total value of shipments	Government shipments							Non-government shipments
				Total	By level of contract		By agency				
					Prime	Subcontract	DOD	NASA	AEC	Other agencies [2]	
Illinois—Continued											
Davenport-Rock Island-Moline, Ill.-Iowa	2.0	24.5	35.1	(p)	(n)	(o)	(n)	(m)	-	(o)	(q)
Peoria	(g)	(t)	(t)	(p)	(p)	(k)	(p)	-	(j)	(n)	(t)
Rockford	5.4	57.9	104.9	50.1	(q)	(q)	(q)	0.2	-	(o)	54.8
St. Louis, Mo.-Ill. (See Missouri)											
Michigan	29.8	322.4	603.0	300.5	219.6	80.9	267.0	(o)	(n)	22.6	302.6
Detroit	16.6	169.8	316.6	128.7	98.2	30.5	118.5	0.5	(n)	(o)	187.9
Grand Rapids	(e)	(q)	(r)	(r)	(q)	(q)	(r)	(k)	-	(k)	14.3
Toledo, Ohio-Mich. (See Ohio)											
Wisconsin	27.7	344.0	536.8	205.6	(s)	(q)	(s)	(p)	(h)	21.9	331.2
Milwaukee	24.2	303.1	456.6	198.1	(s)	(q)	(s)	(p)	-	(p)	258.5
Minnesota	27.3	354.1	580.3	369.6	256.2	113.4	276.7	(q)	(p)	30.3	210.7
Minneapolis-St. Paul	23.7	336.6	513.1	363.4	253.5	110.0	274.1	(q)	(p)	26.8	149.7
Iowa	17.9	192.4	340.4	192.1	132.6	59.5	(s)	(q)	(p)	21.0	148.3
Davenport-Rock Island-Moline, Ill.-Iowa (See Illinois)											
Missouri	48.0	485.7	1,002.0	(u)	(u)	(q)	(u)	(t)	(r)	11.5	(s)
Kansas City, Mo.-Kans	15.2	140.7	229.0	(s)	(s)	(o)	(r)	(k)	(r)	2.9	(s)
St. Louis, Mo.-Ill	(h)	(t)	(u)	(u)	(u)	(q)	(u)	(t)	(m)	(o)	(q)
North Dakota	(c)	(p)	(q)	(q)	(q)	-	(q)	-	-	-	-
South Dakota	(c)	(q)	(q)	(q)	(q)	-	(q)	-	-	-	-
Nebraska	(e)	(r)	(s)	(o)	(m)	(o)	(m)	(k)	(k)	(o)	(r)
Kansas	30.6	302.0	492.7	360.2	(t)	(r)	319.0	(q)	-	(n)	132.5
Kansas City, Mo.-Kans. (See Missouri)											
Wichita	28.9	294.4	480.4	356.7	(t)	(r)	318.5	(q)	-	(1)	123.6
Delaware	(b)	(n)	(o)	(o)	(o)	(j)	(o)	(g)	-	(k)	(m)
Wilmington, Del.-N.J.-Md.	(c)	(p)	(q)	(q)	(o)	(p)	(p)	(n)	(k)	0.8	(m)
Maryland	45.0	473.2	766.7	541.6	478.4	63.3	474.7	31.7	(o)	(q)	225.1
Baltimore	32.9	218.5	531.9	342.0	312.0	29.9	296.8	16.2	(o)	(q)	190.0
Washington, D.C.-Md.-Va. (See District of Columbia)											
Wilmington, Del.-N.J.-Md. (See Delaware)											
District of Columbia	(a)	(o)	(o)	(o)	(o)	(h)	(n)	(o)	-	(i)	(h)
Washington, D.C.-Md.-Va	8.6	88.9	142.6	133.5	72.7	60.8	119.1	12.4	(k)	(m)	9.1
Virginia	32.7	299.6	464.3	353.2	271.9	81.3	339.8	(1)	(e)	12.6	111.1
Washington, D.C.-Md.-Va. (See District of Columbia)											
West Virginia	1.2	6.6	11.3	(o)	(o)	-	9.4	-	-	(1)	(m)
North Carolina	18.3	207.3	330.5	245.2	180.0	65.2	(t)	(j)	-	2.5	85.4
Greensboro-High Point	(c)	(q)	(r)	(q)	(q)	(p)	(q)	-	-	-	(o)
South Carolina	3.0	21.5	34.5	14.1	(n)	(p)	3.1	(h)	(g)	(p)	20.3
Georgia	(g)	(s)	(t)	(t)	(t)	(o)	(t)	(n)	-	(n)	(p)
Atlanta	(g)	(s)	(t)	(t)	(t)	(m)	(t)	(n)	-	(n)	(p)
Chattanooga, Tenn.-Ga. (See Tennessee)											
Florida	31.4	400.7	625.5	544.6	442.2	102.3	413.8	105.2	(k)	(q)	80.9
Miami	(a)	(n)	(o)	(n)	(m)	(n)	(n)	(1)	-	(k)	(m)
Kentucky	4.8	(q)	(r)	(p)	(o)	(n)	(o)	(j)	(n)	(n)	(q)
Cincinnati, Ohio-Ky.-Ind. (See Ohio)											
Louisville, Ky.-Ind	(c)	(n)	(p)	(p)	(p)	-	(p)	-	-	-	-
Tennessee	8.5	69.0	119.5	83.3	(q)	(q)	78.1	1.2	(h)	(n)	36.2
Chattanooga, Tenn.-Ga	(a)	(m)	(m)	(m)	(k)	(m)	(k)	-	-	(m)	(j)
Memphis, Tenn.-Ark	(a)	(m)	(m)	(m)	(1)	(1)	(m)	-	-	-	-
Nashville	3.6	(q)	(r)	(q)	(1)	(q)	(q)	(1)	-	(n)	(q)
Alabama	17.5	155.9	198.4	168.2	153.6	14.6	71.6	94.4	(j)	(n)	30.2
Birmingham	(f)	(q)	(r)	(r)	(r)	(m)	(q)	(q)	-	-	-
Mississippi	6.2	(q)	(r)	(r)	(r)	(p)	(r)	(m)	(h)	(n)	20.7
Arkansas	1.7	(p)	(q)	(q)	(q)	(n)	(q)	(k)	(e)	(1)	(o)
Memphis, Tenn.-Ark. (See Tennessee)											

See footnotes at end of table.

TABLE 6. Employees, Value Added and Value of Shipments and Receipts, by Geographic Areas and Agency—Continued

(Value figures in millions of dollars)

Geographic area[1]	Total employees (1,000)	Value added by manufacture	Total value of shipments	Government shipments							Non-government shipments
				Total	By level of contract		By agency				
					Prime	Sub-contract	DOD	NASA	AEC	Other agencies[2]	
Louisiana	12.8	129.0	238.1	187.0	(s)	(m)	42.9	(s)	-	(p)	51.1
New Orleans	10.2	117.0	225.4	175.3	(s)	(m)	31.3	(s)	-	(p)	50.1
Oklahoma	12.6	138.0	205.4	(s)	83.3	(q)	(r)	11.3	-	(p)	(r)
Texas	54.4	595.4	997.3	829.9	703.4	126.5	716.7	35.7	(p)	(r)	167.3
Dallas	28.4	308.4	504.0	389.8	(t)	(r)	312.3	(q)	-	(q)	114.2
Fort Worth	(g)	(s)	(t)	(t)	(t)	(p)	(t)	(m)	-	(p)	(p)
Houston	(c)	10.9	19.8	(o)	(o)	1.2	(n)	-	-	(n)	(p)
Montana	(c)	(q)	(q)	(q)	(q)	-	(q)	-	-	-	-
Idaho	(a)	(m)	(n)	(n)	(n)	(l)	(m)	(m)	(k)	(j)	(k)
Wyoming	(a)	(n)	(o)	(o)	(o)	(j)	(o)	-	-	(h)	(j)
Colorado	(g)	(t)	(t)	(t)	(t)	(p)	(t)	(m)	-	(j)	(r)
Denver	(g)	(t)	(t)	(t)	(t)	(p)	(t)	(m)	-	(j)	(r)
New Mexico	2.9	(q)	(r)	(q)	(q)	(p)	(p)	(l)	(q)	(k)	(o)
Arizona	21.5	231.3	388.0	255.6	168.0	87.6	220.8	17.2	(n)	(p)	132.4
Phoenix	16.6	185.4	303.2	178.2	94.8	83.4	144.4	16.4	(n)	(p)	125.0
Utah	18.0	195.0	379.1	374.6	324.2	50.4	372.4	(m)	(k)	(l)	4.5
Washington	(i)	(u)	(v)	(u)	(u)	(q)	(u)	(n)	(j)	(m)	(t)
Seattle-Everett	(i)	(u)	(v)	(u)	(u)	(q)	(u)	(n)	(j)	(m)	(t)
Oregon	2.9	27.2	47.6	26.0	(p)	(p)	23.8	(j)	(f)	(n)	21.7
California	407.5	4,885.0	8,116.0	7,036.0	5,557.8	1,478.2	5,456.0	1,248.3	27.4	304.3	1,080.0
Anaheim-Santa Ana-Garden Grove	21.1	238.2	331.6	268.0	158.8	109.2	208.2	17.7	2.0	40.1	63.6
Los Angeles-Long Beach	220.5	2,794.2	4,519.2	3,916.1	3,100.1	816.0	2,793.3	992.8	8.9	121.1	603.1
San Diego	42.5	477.8	696.7	577.6	(t)	(s)	389.9	(s)	(o)	46.8	119.2
San Francisco-Oakland	15.1	177.3	275.3	174.0	96.7	77.3	148.3	(o)	(n)	14.8	101.2
San Jose	46.0	485.5	1,114.3	981.5	891.9	89.6	882.0	(q)	(l)	53.7	132.8
Hawaii	(b)	(o)	(o)	(o)	(o)	-	(o)	-	-	(k)	-

[1]SMSA - Standard Metropolitan Statistical Area. The figures shown for those states in which SMSA data is also shown, do not reflect the total of those SMSA's. (See text for further explanation).

[2]See table 4, footnote 2.

TABLE 7. Employees, Value Added, and Value of Shipments and Receipts, by Geographic Areas and Industry Groups

The United States total of $37.4 billion, in tables 1, 2, and 3, represents the universe of plants with twenty or more employees with small plants inflated in accordance with their sample weights in the 1962 Annual Survey of Manufactures. Data in tables 4 through 7, aggregating to a United States total of $36.6 billion, are not inflated, i.e., they represent reported data only.

Geographic area[1]	Employees (1,000)	Value added by manufacture (million dollars)	Total value of shipments (million dollars)	Selected machinery		Communication equipment		Electronic components and accessories		Aerospace industries		Shipbuilding and repairing and ordnance		Selected instruments and miscellaneous industries	
				Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)
United States, total	1,881.7	21,841.9	36,612.6	216.5	4,722.8	415.8	7,870.7	165.7	2,244.4	779.8	15,941.2	178.8	2,941.0	125.1	2,892.5
Maine	4.6	43.1	83.3	(a)	(o)	-	-	-	-	(b)	(p)	(e)	(r)	-	-
New Hampshire	7.3	52.0	86.4	-	-	(e)	(q)	4.2	34.3	-	-	-	-	(a)	(o)
Lawrence-Haverhill, Mass.-N.H. (See Massachusetts)															
Vermont	5.9	62.8	95.0	3.1	46.7	-	-	(a)	(n)	(e)	(q)	-	-	(a)	(m)
Massachusetts	90.5	934.0	1,586.4	12.3	209.5	35.9	751.9	19.3	230.5	11.9	(t)	7.3	106.9	3.7	(r)
Boston	52.4	557.2	952.0	(f)	(r)	19.2	401.4	9.9	131.1	(g)	(t)	(e)	(r)	-	-
Lawrence-Haverhill, Mass.-N.H.	(b)	(n)	(o)	-	-	-	-	(b)	(o)	-	-	-	-	-	-
Providence-Pawtucket-Warwick, R.I.-Mass. (See Rhode Island)															
Springfield-Chicopee-Holyoke, Mass.-Conn.	4.9	44.3	67.0	(a)	(o)	-	-	(e)	(q)	(a)	(m)	(c)	(q)	(a)	(o)
Worcester	2.8	28.5	39.0	(e)	(q)	-	-	-	-	-	-	(b)	(o)	-	-
Rhode Island	1.9	16.8	29.4	-	-	(b)	(p)	1.1	13.0	(a)	(l)	-	-	-	-
Providence-Pawtucket-Warwick, R.I.-Mass.	(b)	(o)	(o)	-	-	-	-	(b)	(o)	-	-	-	-	(a)	(m)
Connecticut	103.8	1,081.2	1,937.6	3.2	57.5	4.9	77.4	7.3	82.9	63.6	(v)	22.5	353.7	2.4	(q)
Bridgeport	19.7	226.6	380.6	(e)	(q)	-	-	(b)	(o)	(g)	(t)	(c)	(q)	-	-
Hartford	(h)	(t)	(u)	-	-	-	-	(b)	(o)	(h)	(u)	(b)	(o)	-	-
New Haven	(f)	(r)	(s)	-	-	(a)	(o)	(a)	(l)	(f)	(s)	(e)	(q)	-	-
Springfield-Chicopee-Holyoke, Mass.-Conn. (See Massachusetts)															
Waterbury	1.0	7.8	13.6	-	-	(b)	(o)	-	-	-	-	-	-	(a)	(n)
New York	229.2	3,193.0	5,049.0	36.7	851.2	64.4	1,206.4	12.0	194.2	48.8	1,062.5	7.4	116.5	59.9	1,618.4
Albany-Schenectady-Troy	(g)	(s)	(t)	(f)	(s)	-	-	(b)	(p)	-	-	-	-	(e)	(r)
Binghamton, N.Y.-Pa.	20.3	184.9	411.2	(f)	(s)	(f)	(s)	(a)	(l)	(c)	(q)	-	-	(e)	(r)
Buffalo	11.3	110.7	178.3	(b)	(g)	(e)	(q)	(b)	(f)	5.4	86.1	(b)	(p)	(c)	(p)
New York	90.2	1,224.2	2,005.3	(c)	(q)	29.4	597.7	(e)	(q)	38.0	885.8	4.7	75.8	13.2	364.4
Rochester	46.8	926.1	1,218.9	(e)	(q)	(f)	(s)	(a)	(p)	-	-	-	-	36.1	1,047.0
Syracuse	(g)	(s)	(s)	(a)	(l)	(f)	(s)	(c)	(p)	-	-	-	-	-	-
Utica-Rome	11.6	163.7	244.5	(e)	(s)	(e)	(r)	-	-	(c)	(q)	(c)	(p)	-	-
New Jersey	107.2	1,241.3	1,865.4	2.6	43.2	52.1	905.7	16.0	209.8	15.7	275.0	6.8	85.7	14.1	346.0
Allentown-Bethlehem-Easton, Pa.-N.J. (See Pennsylvania)															
Jersey City	15.5	155.6	250.3	-	-	(f)	(s)	(e)	(q)	(a)	(n)	(c)	(q)	(b)	(o)
Newark	19.2	195.9	316.9	(a)	(n)	(e)	(r)	4.7	58.2	5.5	91.9	-	-	(e)	(r)
Paterson-Clifton-Passaic	30.4	356.7	529.0	(a)	(n)	15.6	254.3	(a)	(n)	(f)	(s)	-	-	(f)	(s)
Philadelphia, Pa.-N.J. (See Pennsylvania)															
Wilmington, Del.-N.J.-Md. (See Delaware)															
Pennsylvania	81.2	875.9	1,443.7	13.6	294.5	10.8	167.7	22.9	379.5	24.0	405.4	5.5	114.1	4.4	82.4
Allentown-Bethlehem-Easton, Pa.-N.J.	(b)	(r)	(r)	-	-	-	-	(e)	(r)	-	-	-	-	(a)	(p)
Binghamton, N.Y.-Pa. (See New York)															
Lancaster	(e)	(r)	(s)	-	-	-	-	(e)	(s)	-	-	-	-	-	-
Philadelphia, Pa.-N.J.	58.3	605.7	998.0	10.8	229.3	23.1	375.5	1.6	35.4	11.1	202.1	(f)	(r)	(e)	(r)
Pittsburgh	4.0	42.6	75.6	(a)	(n)	(c)	(q)	(c)	(p)	-	-	(b)	(q)	(a)	(n)
Reading	(e)	(q)	(q)	-	-	-	-	(e)	(q)	-	-	-	-	(a)	(o)
Wilkes-Barre-Hazelton	(b)	(o)	(p)	-	-	-	-	(b)	(o)	(a)	(n)	-	-	-	-
York	2.8	35.8	80.6	(c)	(q)	-	-	-	-	(a)	(n)	(a)	(q)	-	-
Ohio	103.2	1,154.8	2,124.1	34.3	621.5	14.0	332.6	4.3	49.3	43.9	943.3	(f)	(s)	(c)	(p)
Akron	(f)	(r)	(s)	(a)	(n)	-	-	-	-	(o)	(r)	(a)	(o)	-	-
Cincinnati, Ohio-Ky.-Ind	26.1	316.3	619.2	7.3	120.7	(e)	(s)	(c)	(q)	(g)	(t)	-	-	(b)	(p)
Cleveland	18.4	197.5	356.8	4.4	83.4	(a)	(n)	(b)	(p)	9.0	144.0	(e)	(s)	-	-
Columbus	(g)	204.1	379.0	(b)	(o)	(e)	(r)	-	-	(g)	(t)	(b)	(q)	-	-

See footnotes at end of table.

TABLE 7. Employees, Value Added, and Value of Shipments and Receipts, by Geographic Areas and Industry Groups—Continued

Geographic area[1]	Employees (1,000)	Value added by manufacture (million dollars)	Total value of shipments (million dollars)	Selected machinery		Communication equipment		Electronic components and accessories		Aerospace industries		Shipbuilding and repairing and ordnance		Selected instruments and miscellaneous industries	
				Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)
Ohio—Continued															
Dayton	(g)	(s)	(t)	(g)	(t)	0.4	4.8	(a)	(m)	1.1	22.0	-	-	-	-
Toledo, Ohio-Mich.	1.2	11.2	18.7	-	-	-	-	(a)	(n)	(b)	(p)	(a)	(n)	(a)	(n)
Youngstown-Warren	(b)	(o)	(p)	-	-	-	-	-	-	(b)	(p)	-	-	-	-
Indiana	44.4	473.7	870.0	2.0	42.0	(g)	(s)	6.1	76.8	21.1	(t)	(e)	(r)	(a)	(n)
Cincinnati, Ohio-Ky.-Ind. (See Ohio)															
Gary-Hammond-East Chicago	(a)	(n)	(n)	-	-	-	-	-	-	-	-	(a)	(n)	-	-
Indianapolis	24.6	293.7	533.4	(c)	(q)	(f)	(s)	(c)	(p)	(g)	(t)	-	-	(k)	(n)
Louisville, Ky.-Ind. (See Kentucky)															
Illinois	105.7	1,265.1	2,297.5	47.2	1,182.0	37.1	737.5	5.5	82.3	4.7	90.1	4.9	(r)	6.3	(s)
Chicago	66.9	752.8	1,369.1	21.8	498.6	34.1	673.9	(f)	(r)	(a)	(o)	-	-	5.7	113.8
Davenport-Rock Island-Moline, Iowa-Ill.	2.0	24.5	35.1	(a)	(o)	(b)	(p)	-	-	-	-	-	-	(c)	(p)
Peoria	(g)	(t)	(t)	(g)	(t)	-	-	-	-	-	-	-	-	-	-
Rockford	5.4	57.9	104.9	1.8	32.2	-	-	-	-	(e)	(r)	-	-	(a)	(o)
St. Louis, Mo.-Ill. (See Missouri)															
Michigan	29.8	322.4	603.0	15.3	307.8	(b)	(p)	-	-	6.9	121.5	1.8	81.4	(e)	(r)
Detroit	16.6	169.8	316.6	11.5	201.3	-	-	-	-	3.0	51.1	(b)	(r)	(c)	(o)
Grand Rapids	(e)	(q)	(r)	(a)	(n)	-	-	-	-	(b)	(o)	-	-	(e)	(r)
Toledo, Ohio-Mich. (See Ohio)															
Wisconsin	27.7	344.0	536.8	9.8	185.5	(f)	(s)	(c)	(q)	(a)	(n)	1.9	(q)	(f)	(s)
Milwaukee	24.2	303.1	456.6	7.8	139.4	(f)	(s)	(c)	(q)	-	-	(b)	(q)	(f)	(s)
Minnesota	27.3	354.1	580.3	10.7	295.2	7.5	128.3	(a)	(p)	(e)	(q)	(f)	(s)	(a)	(n)
Minneapolis-St. Paul	23.7	336.6	513.1	8.1	240.6	(f)	(s)	(a)	(p)	(e)	(q)	(f)	(s)	(a)	(n)
Iowa	17.9	192.4	340.4	2.3	79.0	(f)	(s)	1.9	28.1	(a)	(o)	(e)	(q)	(c)	(p)
Davenport-Rock Island-Moline, Iowa-Ill. (See Illinois)															
Missouri	48.0	485.7	1,002.0	(a)	(m)	(e)	(s)	0.5	5.1	31.6	(u)	11.4	138.4	-	-
Kansas City, Mo.-Kans.	15.2	140.7	229.0	-	-	(e)	(s)	0.4	4.3	(b)	(o)	(f)	(s)	-	-
St. Louis, Mo.-Ill.	(h)	(t)	(u)	(a)	(m)	-	-	-	-	(h)	(u)	6.0	99.1	-	-
North Dakota	(c)	(p)	(q)	-	-	-	-	-	-	(c)	(q)	-	-	-	-
South Dakota	(c)	(q)	(q)	-	-	-	-	-	-	(c)	(q)	-	-	-	-
Nebraska	(e)	(r)	(s)	-	-	(e)	(r)	(c)	(p)	-	-	-	-	-	-
Kansas	30.6	302.0	492.7	-	-	-	-	(c)	(p)	27.9	462.0	-	-	(c)	(p)
Kansas City, Mo.-Kans. (See Missouri)															
Wichita	28.9	294.4	480.4	-	-	-	-	-	-	(h)	(t)	-	-	(c)	(p)
Delaware	(b)	(n)	(o)	-	-	-	-	-	-	(b)	(o)	-	-	-	-
Wilmington, Del.-N.J.-Md.	(c)	(p)	(q)	-	-	-	-	-	-	(c)	(q)	-	-	-	-
Maryland	45.0	473.2	766.7	-	-	21.4	407.1	(a)	(o)	14.2	214.9	(f)	(s)	0.4	9.1
Baltimore	32.9	318.5	531.9	-	-	13.7	244.7	-	-	(g)	(s)	8.4	124.0	(a)	(n)
Washington, D.C.-Md.-Va. (See District of Columbia)															
Wilmington, Del.-N.J.-Md. (See Delaware)															
District of Columbia	(a)	(o)	(o)	-	-	(a)	(n)	-	-	-	-	-	-	(a)	(o)
Washington, D.C.-Md.-Va.	8.6	88.9	142.6	(a)	(n)	(c)	(q)	(e)	(r)	(c)	(p)	(b)	(p)	(a)	(o)
Virginia	32.7	299.6	464.3	(c)	(p)	5.2	108.3	4.5	(r)	-	-	21.4	(t)	(a)	(n)
Washington, D.C.-Md.-Va. (See District of Columbia)															

See footnotes at end of table.

TABLE 7. Employees, Value Added, and Value of Shipments and Receipts, by Geographic Areas and Industry Groups—Continued

Geographic area [1]	Employees (1,000)	Value added by manufacture (million dollars)	Total value of shipments (million dollars)	Selected machinery		Communication equipment		Electronic components and accessories		Aerospace industries		Shipbuilding and repairing and ordnance		Selected instruments and miscellaneous industries	
				Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)	Employees (1,000)	Value of shipments (million dollars)
West Virginia	1.2	6.6	11.3	-	-	-	-	(a)	(n)	(a)	(n)	(b)	(o)	-	-
North Carolina	18.3	207.3	330.5	-	-	(f)	(s)	2.8	33.7	2.7	40.6	-	-	(e)	(r)
Greensboro-High Point	(c)	(q)	(r)	-	-	(c)	(q)	-	-	-	-	-	-	(a)	(n)
South Carolina	3.0	21.5	34.5	-	-	-	-	(e)	(q)	(a)	(m)	-	-	-	-
Georgia	(g)	(s)	(t)	-	-	-	-	-	-	(g)	(t)	(a)	(n)	-	-
Atlanta	(g)	(s)	(t)	-	-	-	-	-	-	(g)	(t)	-	-	-	-
Chattanooga, Tenn.-Ga. (See Tennessee)															
Florida	31.4	400.7	625.5	(c)	(r)	7.1	129.0	1.1	13.0	19.3	380.2	(e)	(q)	0.5	5.3
Miami	(a)	(n)	(o)	-	-	(a)	(n)	-	-	-	-	(a)	(m)	-	-
Kentucky	4.8	(q)	(r)	-	-	-	-	(e)	(r)	-	-	(a)	(n)	-	-
Cincinnati, Ohio-Ky.-Ind. (See Ohio)															
Louisville, Ky.-Ind	(c)	(n)	(p)	-	-	-	-	-	-	-	-	(c)	(p)	-	-
Tennessee	8.5	69.0	119.5	-	-	4.0	53.5	(b)	(n)	2.9	(r)	(c)	(o)	-	-
Chattanooga, Tenn.-Ga	(a)	(m)	(m)	-	-	-	-	-	-	(a)	(m)	-	-	-	-
Memphis, Tenn.-Ark	(a)	(m)	(m)	-	-	-	-	-	-	-	-	(a)	(m)	-	-
Nashville	3.6	(q)	(r)	-	-	-	-	(b)	(n)	(e)	(q)	(b)	(o)	-	-
Alabama	17.5	155.9	198.4	(a)	(n)	-	-	(a)	(o)	14.3	155.1	(e)	(q)	-	-
Birmingham	(f)	(q)	(r)	-	-	-	-	-	-	(f)	(r)	-	-	-	-
Mississippi	6.2	(q)	(r)	(a)	(n)	-	-	(a)	(n)	(b)	(p)	(e)	(r)	(a)	(m)
Arkansas	1.7	(p)	(q)	-	-	(b)	(p)	-	-	-	-	-	-	(c)	(q)
Memphis, Tenn.-Ark. (See Tennessee)															
Louisiana	12.8	129.0	238.1	-	-	-	-	-	-	(e)	(s)	(f)	(s)	-	-
New Orleans	10.2	117.0	225.4	-	-	-	-	-	-	(e)	(s)	(f)	(r)	-	-
Oklahoma	12.6	138.0	205.4	(a)	(n)	(f)	(s)	-	-	(f)	(r)	-	-	(a)	(n)
Texas	54.4	595.4	997.3	(b)	(p)	8.3	(s)	(f)	(s)	32.7	644.1	3.0	(q)	1.1	(p)
Dallas	28.4	308.4	504.0	(a)	(m)	(f)	(s)	(f)	(s)	(g)	(t)	-	-	(b)	(o)
Fort Worth	(g)	(s)	(t)	-	-	-	-	-	-	(g)	(t)	-	-	-	-
Houston	(c)	10.9	19.8	-	-	(a)	(n)	-	-	-	-	(b)	(o)	(a)	(o)
Montana	(c)	(q)	(q)	-	-	-	-	-	-	(c)	(q)	-	-	-	-
Idaho	(a)	(m)	(n)	-	-	-	-	-	-	(a)	(n)	-	-	-	-
Wyoming	(a)	(n)	(o)	-	-	-	-	-	-	(a)	(o)	-	-	-	-
Colorado	(g)	(t)	(t)	(a)	(l)	-	-	(a)	(m)	(g)	(t)	-	-	(c)	(q)
Denver	(g)	(t)	(t)	(a)	(l)	-	-	-	-	(g)	(t)	-	-	(c)	(q)
New Mexico	2.9	(q)	(r)	-	-	(a)	(m)	-	-	-	-	(e)	(q)	(a)	(o)
Arizona	21.5	231.3	388.0	(f)	(s)	2.6	(q)	(e)	(r)	5.6	(r)	-	-	(e)	(r)
Phoenix	16.6	185.4	303.2	(f)	(s)	(e)	(q)	(f)	(r)	(c)	(q)	-	-	(c)	(q)
Utah	18.0	195.0	379.1	(a)	(n)	(b)	(o)	0.6	9.2	16.4	359.2	-	-	-	-
Washington	(i)	(u)	(v)	(b)	(p)	-	-	-	-	(i)	(v)	(e)	(r)	-	-
Seattle-Everett	(i)	(u)	(v)	(a)	(o)	-	-	-	-	(i)	(v)	(e)	(r)	-	-
Oregon	2.9	27.2	47.6	-	-	-	-	-	-	(b)	(p)	(c)	(q)	-	-
California	407.5	4,885.0	8,116.0	12.1	235.6	83.0	1,507.2	27.5	390.2	252.0	5,310.7	26.0	557.3	7.0	115.0
Anaheim-Santa Ana-Garden Grove	21.1	238.2	331.6	(b)	(o)	14.5	228.6	(e)	(r)	0.9	(p)	-	-	0.6	10.8
Los Angeles-Long Beach	220.5	2,794.2	4,519.2	5.0	121.1	28.0	509.5	8.7	121.6	161.6	3,434.7	13.9	269.6	3.3	62.7
San Diego	42.5	477.8	696.7	(e)	(q)	(c)	(p)	(a)	(o)	35.1	565.4	(c)	(q)	(c)	(q)
San Francisco-Oakland	15.1	177.3	275.3	1.2	19.3	7.0	129.6	(e)	(q)	(b)	(q)	3.7	62.4	(a)	(l)
San Jose	46.0	485.5	1,114.3	(e)	(r)	0.7	11.9	8.6	127.0	(h)	(u)	(f)	(s)	-	-
Hawaii	(b)	(o)	(o)	-	-	-	-	-	-	(b)	(o)	-	-	-	-

Note: See appendix A for description of industry groups.

-Represents zero.

[1] See table 6 footnote 1.

Appendixes A Through E

APPENDIX A—INDUSTRY GROUP DESCRIPTIONS AND RANGE SYMBOL DEFINITIONS. This appendix contains the description of groups of 4-digit Standard Industrial Classification (SIC) industries which have been constituted in order to maximize the amount of information which could be presented in this report without disclosing figures for individual companies. In effect, therefore, these descriptions also represent an enumeration of the individual SIC industries covered by the MA-175 survey. Also shown in this appendix is an explanation of the letter symbols used in place of absolute number of employee and dollar-value figures where the latter would constitute a disclosure of company data.

APPENDIX B—MANUFACTURING FACILITIES OWNED BY THE U.S. GOVERNMENT AND OPERATED BY THE DEPARTMENT OF DEFENSE (DOD). Although these establishments may also be engaged in nonmanufacturing activities at the same location, the statistics represent only their activities relating to manufacturing. Data on the production of goods and the performance of services, such as research and development, for these installations are covered in this table. Military personnel are omitted from the employment, payroll, and man-hours data. The cost and billing data for 1963 are based on the Industrial Fund accounting system of DOD. Data resulting from the conversion and modification of aircraft for the U.S. Air Force are not included while similar services for the Army and Navy are included. This table does not include data on activities which serve primarily or exclusively their own installations (e.g., bakeries and some machine shops).

APPENDIX C—U.S. ATOMIC ENERGY COMMISSION CONTRACTOR EMPLOYMENT, BY STATE: DECEMBER 1963. This table contains data on employment of contractors employing more than five persons, except commercial supply contractors.

APPENDIX D—COSTS INCURRED BY U.S. ATOMIC ENERGY COMMISSION, BY LOCATION: FISCAL YEAR 1963. The table reflects total costs incurred, excluding depreciation on government-owned facilities, for direct and prime contractor activities of the Atomic Energy Commission. Construction covers the acquisition of new plants with related equipment. Operations cover all other costs including equipment not related to construction.

APPENDIX E—REPORTING FORM MA-175 (WITH INSTRUCTIONS).

APPENDIX A. Industry Group Descriptions and Range Symbol Definitions

INDUSTRY GROUP DESCRIPTIONS

Selected Machinery - Steam engines and turbines; construction machinery, machine tools; and computing and related machines (SIC 3511, 3531, 3541, 3542, and 3571).

Communication equipment - Telephone; telegraph and communication equipment (SIC 366).

Electronic components and accessories (SIC 367).

Aerospace industries - Guided missiles, space vehicles (completely assembled), aircraft and parts (SIC 372 and 1925).

Ship building and repairing, and ordnance (except guided missiles and space vehicles) (SIC 3731 and 19, except 1925).

Selected instruments and miscellaneous industries - Instruments--engineering, laboratory, and scientific research, aircraft engine; nuclear radiation detection; optical (including lenses); and photographic equipment and supplies and miscellaneous industries (SIC 3811, 38211, 38216, 3831, and 3861).

RANGE SYMBOL DEFINITIONS

Symbol	Range	Symbol	Range
(a)	Under 500	(m)	1 to 1.9 (million)
(b)	500 to 999	(n)	2 to 4.9 (million)
(c)	1 to 1.9 (thousand)	(o)	5 to 9.9 (million)
(e)	2 to 4.9 (thousand)	(p)	10 to 19.9 (million)
(f)	5 to 9.9 (thousand)	(q)	20 to 49.9 (million)
(g)	10 to 19.9 (thousand)	(r)	50 to 99.9 (million)
(h)	20 to 49.9 (thousand)	(s)	100 to 199.9 (million)
(i)	50 to 99.9 (thousand)	(t)	200 to 499.9 (million)
(j)	100 to 199.9 (thousand)	(u)	500 to 999.9 (million)
(k)	200 to 499.9 (thousand)	(v)	1,000 and over (million)
(l)	500 to 999.9 (thousand)		

APPENDIX B. Department of Defense

Item	All employees (wage board and graded)		Production workers (wage board)			Costs ($1,000)	
	Number	Payroll ($1,000)	Number	Man-hours (1,000)	Wages ($1,000)	Materials, supplies, and parts used	Contractual services and other costs
GEOGRAPHIC AREA							
United States, total	230,646	1,691,651	155,300	[1]284,054	1,096,785	587,976	315,017
New England division	26,594	184,642	20,152	36,729	137,484	65,286	38,956
New Hampshire	8,825	61,396	6,950	12,628	48,418	21,078	5,519
Massachusetts	13,743	94,669	10,472	18,979	71,082	34,816	26,076
Rhode Island	3,193	21,921	2,504	4,707	16,405	5,575	7,361
Connecticut	833	6,656	226	415	1,579	3,817	-
Middle Atlantic division	49,190	353,850	32,068	57,851	219,217	124,306	58,689
New York	16,177	115,724	12,345	22,196	90,153	49,674	7,200
New Jersey	7,140	56,740	2,874	5,192	18,029	16,931	19,409
Pennsylvania	25,873	181,386	16,849	30,463	111,035	57,701	32,080
East North Central division	13,633	99,994	9,189	17,307	67,532	51,137	10,661
Indiana	5,534	41,556	3,500	6,824	26,417	15,005	3,814
Illinois	8,099	58,438	5,689	10,483	41,115	36,132	6,847
West North Central division	27	171	15	26	79	5	32
Iowa	27	171	15	26	79	5	32
South Atlantic division	59,744	439,216	37,958	69,196	263,612	133,082	104,748
Maryland	18,726	142,542	7,408	13,156	49,544	52,530	46,788
District of Columbia	4,799	40,991	1,218	2,144	7,893	10,775	30,026
Virginia	19,113	137,586	15,307	28,067	109,601	39,476	15,075
North Carolina	1,734	12,068	1,538	2,837	10,568	2,208	2,278
South Carolina	7,167	49,144	5,569	10,113	38,661	14,969	4,009
Georgia	939	5,558	687	1,274	3,876	3,507	301
Florida	7,266	51,327	6,231	11,600	43,469	9,617	6,271
East South Central division	10,999	92,745	3,597	6,503	26,513	19,818	16,548
Kentucky	2,624	19,772	1,895	3,436	14,837	9,962	1,782
Alabama	8,375	72,973	1,702	3,067	11,676	9,856	14,766
West South Central division	3,816	21,601	2,983	5,297	16,082	13,196	3,158
Arkansas	1,333	8,003	800	1,352	4,258	5,892	2,170
Oklahoma	1,008	5,478	783	1,438	4,122	494	988
Texas	1,475	8,120	1,400	2,507	7,702	6,810	-
Mountain division	3,877	26,660	2,120	3,851	14,258	20,463	20,029
Colorado	849	5,971	583	1,124	4,045	14,544	7,097
New Mexico	442	3,990	24	40	158	658	7,678
Utah	2,586	16,699	1,513	2,687	10,055	5,261	5,254
Pacific division	62,766	472,772	47,218	87,294	352,008	160,683	62,196
Washington	10,055	72,879	7,887	14,449	55,401	34,175	6,121
California	47,886	363,037	35,440	65,799	267,543	113,737	53,883
Hawaii	4,825	36,856	3,891	7,046	29,064	12,771	2,192
SIC CODES AND MAJOR ACTIVITY							
All manufacturing facilities, total.	230,646	1,691,651	155,300	284,054	1,096,785	587,976	315,017
23 Apparel and related products	1,809	8,305	1,689	2,785	7,520	1,404	723
281 Basic chemicals	5,836	40,441	2,365	4,038	14,440	21,557	19,968
289 Miscellaneous chemical products	2,704	18,531	1,796	3,327	12,158	27,371	3,270
353 Construction and like equipment	300	1,867	255	451	1,607	154	200
366 Communication equipment	10,697	82,393	4,488	9,706	28,016	31,191	27,787
372 Aircraft and parts	34,471	246,883	28,644	53,226	202,616	46,420	45,822
373 Ship and boat building	94,687	691,574	76,294	138,616	560,645	253,367	45,337
382 Mechanical measuring devices	27	171	15	26	79	5	32
19 Ordnance and accessories	66,154	495,656	35,559	64,592	243,587	174,545	121,342
192 Missiles and ammunition, n.e.c	36,657	282,829	17,478	32,370	119,702	94,282	68,493
-- Research and development	13,961	105,830	4,195	7,287	26,117	31,962	50,536

Note: Includes manufacturing facilities, research and development activities, and manufacturing performed in supply depots. Not comparable to data shown in the 1958 Census publication "Manufacturing Activity in Government Establishments, MC58(S)-1."

- Represents zero.

Source: 1963 Census of Manufactures Special Report MC63(S)-1, Manufacturing Activity in Government Establishments.

Facilities: 1963

Item	Value of shipments or receipts for service by type of activity ($1,000)						Value added by manufacture ($1,000)
	Manufacture and assembly	Construction and conversion	Research and development	Other receipts	Total billings	Total revenues	
GEOGRAPHIC AREA							
United States, total	433,140	597,321	634,193	877,151	2,541,805	2,641,227	2,053,251
New England division	68,665	128,927	37,849	49,088	284,529	292,564	227,278
New Hampshire	598	70,895	1,012	7,240	79,745	90,501	69,423
Massachusetts	67,039	39,775	13,700	40,372	160,886	155,450	120,634
Rhode Island	1,028	18,257	11,568	1,476	32,329	35,044	29,469
Connecticut	-	-	11,569	-	11,569	11,569	7,752
Middle Atlantic division	119,240	153,105	144,178	144,092	560,615	547,217	422,911
New York	27,411	90,410	19,196	41,367	178,384	179,753	130,079
New Jersey	33,720	605	42,861	26,432	103,618	93,150	76,219
Pennsylvania	58,109	62,090	82,121	76,293	278,613	274,314	216,613
East North Central division	103,383	1,167	11,442	45,275	161,267	164,696	113,559
Indiana	30,749	-	8,129	18,834	57,712	61,261	46,256
Illinois	72,634	1,167	3,313	26,441	103,555	103,435	67,303
West North Central division	100	-	-	108	208	208	203
Iowa	100	-	-	108	208	208	203
South Atlantic division	69,618	28,122	261,648	289,827	649,215	688,420	555,338
Maryland	51,418	-	151,237	44,165	246,820	244,157	191,627
District of Columbia	-	-	80,628	2,838	83,466	81,918	71,143
Virginia	6,804	12,832	21,467	121,455	162,558	195,255	155,779
North Carolina	435	-	384	15,226	16,045	17,141	14,933
South Carolina	235	15,290	1,971	48,108	65,604	70,619	55,650
Georgia	7,184	-	285	429	7,898	9,212	5,705
Florida	3,542	-	5,676	57,606	66,824	70,118	60,501
East South Central division	19,016	-	36,051	82,616	137,683	129,616	109,798
Kentucky	19,016	-	600	11,452	31,068	31,550	21,588
Alabama	-	-	35,451	71,164	106,615	98,066	88,210
West South Central division	19,192	4,007	68	16,246	39,513	38,248	25,052
Arkansas	14,804	-	60	2,759	17,623	16,358	10,466
Oklahoma	2,618	-	8	4,334	6,960	6,960	6,466
Texas	1,770	4,007	-	9,153	14,930	14,930	8,120
Mountain division	22,475	-	22,600	23,316	68,391	67,386	46,923
Colorado	20,120	-	-	9,876	29,996	27,740	13,196
New Mexico	-	-	12,326	-	12,326	12,326	11,668
Utah	2,355	-	10,274	13,440	26,069	27,320	22,059
Pacific division	11,451	281,993	120,357	226,583	640,384	712,872	552,189
Washington	2,867	77,331	2,526	21,852	104,576	117,044	82,869
California	8,548	199,976	117,831	168,429	494,784	543,037	429,300
Hawaii	36	4,686	-	36,302	41,024	52,791	40,020
SIC CODES AND MAJOR ACTIVITY							
All manufacturing facilities, total	433,140	597,321	634,193	877,151	2,541,805	2,641,227	2,053,251
23 Apparel and related products	10,908	-	-	109	11,017	10,624	9,220
281 Basic chemicals	34,956	-	26,927	21,042	82,925	80,835	59,278
289 Miscellaneous chemical products	37,570	-	4,266	6,408	48,244	49,831	22,460
353 Construction and like equipment	-	-	-	2,221	2,221	2,221	2,067
366 Communication equipment	40,587	605	78,111	34,070	153,373	142,905	111,714
372 Aircraft and parts	12,985	64,540	62,948	185,520	325,993	342,270	295,850
373 Ship and boat building	7,318	525,451	18,019	352,900	903,688	1,021,847	768,480
382 Mechanical measuring devices	100	-	-	108	208	208	203
19 Ordnance and accessories	288,716	6,725	260,533	264,555	820,529	798,043	623,498
192 Missiles and ammunition, n.e.c.	94,145	4,007	184,910	164,136	447,198	447,063	352,781
-- Research and development	-	-	183,389	10,218	193,607	192,443	160,481

APPENDIX C. U.S. Atomic Energy Commission Contractor Employment, by State: December 1963

State	Total	Operations	Construction
United States, total	126,002	115,194	10,808
Alabama	19	19	-
California	18,318	17,001	1,317
Colorado	3,466	3,360	106
Connecticut	2,241	2,216	25
Delaware	156	71	85
District of Columbia	10	-	10
Florida	1,542	1,531	11
Hawaii	1,017	642	375
Idaho	4,010	3,259	751
Illinois	5,684	5,218	466
Indiana	189	189	-
Iowa	1,924	1,886	38
Kentucky	1,211	1,199	12
Maryland	242	242	-
Massachusetts	1,608	1,605	3
Michigan	74	67	7
Minnesota	85	85	-
Mississippi	50	29	21
Missouri	8,841	8,724	117
Nebraska	7	5	2
Nevada	7,822	4,540	3,282
New Jersey	832	713	119
New Mexico	15,705	15,169	536
New York	6,736	6,501	235
North Carolina	35	35	-
Ohio	5,899	5,755	144
Oklahoma	38	-	38
Pennsylvania	4,661	4,629	32
South Carolina	7,086	6,320	766
Tennessee	14,906	13,794	1,112
Texas	1,788	1,765	23
Utah	77	-	77
Virginia	158	115	43
Washington	9,336	8,258	1,078
Wisconsin	229	175	54

Note: Employment covers all prime and subcontractors employing more than five persons except commercial supply contractors. Not included in the totals are the following.

	Total	Operations	Construction
Japan	864	864	-
Puerto Rico	371	299	72

- Represents zero.

Source: U.S. Atomic Energy Commission, Division of Labor Relations - AEC No. 251.

APPENDIX D. Costs Incurred by U.S. Atomic Energy Commission, by Location: Fiscal Year 1963

(Thousands of dollars)

State	Total	Operations	Construction
United States, total	2,583,244	2,185,681	397,563
Alabama	256	256	-
Alaska	282	282	-
Arizona	1,287	1,287	-
Arkansas	307	307	-
California	329,692	277,381	52,311
Colorado	77,645	71,623	6,022
Connecticut	46,929	43,236	3,693
Delaware	171	92	79
District of Columbia	14,860	14,730	130
Florida	19,462	18,429	1,033
Georgia	889	882	7
Hawaii	1,364	1,363	1
Idaho	72,647	36,724	35,923
Illinois	103,643	70,600	33,043
Indiana	8,906	7,422	1,484
Iowa	17,649	15,464	2,185
Kansas	548	548	-
Kentucky	84,128	81,727	2,401
Louisiana	247	247	-
Maine	254	254	-
Maryland	34,923	34,236	687
Massachusetts	34,881	30,098	4,783
Michigan	4,431	4,299	132
Minnesota	2,286	1,677	609
Mississippi	8,925	8,925	-
Missouri	101,181	93,544	7,637
Montana	14	14	-
Nebraska	2,308	115	2,193
Nevada	132,103	110,924	21,179
New Hampshire	198	198	-
New Jersey	17,261	14,093	3,168
New Mexico	413,115	373,917	39,198
New York	127,031	99,726	27,305
North Carolina	1,210	1,163	47
North Dakota	27	27	-
Ohio	142,931	134,151	8,780
Oklahoma	463	463	-
Oregon	1,468	1,468	-
Pennsylvania	70,863	64,657	6,206
Rhode Island	539	539	-
South Carolina	109,653	92,729	16,924
South Dakota	5,604	5,604	-
Tennessee	263,683	210,954	52,729
Texas	24,868	23,175	1,693
Utah	50,085	50,049	36
Vermont	26	26	-
Virginia	11,428	10,359	1,069
Washington	189,602	126,147	63,455
West Virginia	281	281	-
Wisconsin	6,159	4,738	1,421
Wyoming	44,531	44,531	-

Note: Allocations of costs are made in accordance with the physical location of contractors and AEC offices but do not necessarily represent funds spent in those locations. (See text.) Includes equipment but excludes depreciation. Not included in the totals are the following:

	Total	Operations	Construction
Puerto Rico	4,836	1,587	3,249
Foreign countries	242,247	242,146	101

- Represents zero.

Source: U.S. Atomic Energy Commission - 1963 Financial Report.

APPENDIX E. **Reporting Form MA-175** (with instructions)

DUE DATE: 60 DAYS FOLLOWING RECEIPT OF FORM Budget Bureau No. 41-6423; Approval Expires December 31, 1964

FORM MA-175
(6-29-64)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

REPORT ON SHIPMENTS TO OR RECEIPTS FOR WORK DONE FOR FEDERAL GOVERNMENT AGENCIES AND THEIR CONTRACTORS AND SUPPLIERS IN 1963

(Based on the Total Shipment Figures from the Annual Survey of Manufactures, Census Form MA-100)

TO: Bureau of the Census, Industry Division
Washington, D.C. 20233

CONFIDENTIAL – Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.

ITEM 1 – In correspondence about the report for this establishment, please refer to your 11-digit file number below.

(PLEASE RETURN THIS COPY)

ITEM 2 Please check the box which describes the 1963 receipts for shipments or other work done in this plant for Federal Government agencies and their contractors and suppliers:

☐ None ☐ Up to $100,000 ☐ $100,000 or more

For purposes of this report, such receipts will include payments received by you for work done by you on Federal Government prime contracts as well as the value of materials, components, subassemblies, and services supplied by you to Federal Government contractors and suppliers for use in their performance of Federal Government contracts.

If your response to this question was "$100,000 or more," please complete the form on the reverse side. Otherwise, sign the form in the space provided below and return it.

INTRODUCTORY NOTE

The Census Bureau is conducting this survey to develop a measure of the level of industrial activity generated by the expenditures made by Federal Government agencies. Special attention is directed toward expenditures made by the Department of Defense (DOD), the National Aeronautics and Space Administration (NASA), and the Atomic Energy Commission (AEC).

Industrial activity generated by Federal Government expenditures is being measured in terms of receipts (including value of shipments) for work done, or for value of products shipped to Federal agencies, their contractors, subcontractors and suppliers. For each plant covered by the report such receipts will consist of two kinds of payments. The first is payments received for work done directly for Federal agencies on Government prime contracts. The second is payments received for work done for other Government contractors and suppliers for use in the performance of Federal Government contracts. Subcontract receipts reported will normally be based on payments made for work done on Government subcontracts when subject to the Renegotiation Act of 1951, as amended. These receipts should include the value of materials, components, subassemblies, and services supplied to other plants of the company (interplant transfers) as well as to contractors and suppliers outside the company for use in the performance of contracts. This is in accord with standard Census reporting procedures.

This survey is being conducted on an establishment or plant basis. This method of reporting is necessary so that the data reported by each plant may be tabulated by the geographic area in which the work is actually being performed. Additionally, it will permit the data to be classified by appropriate product class and Standard Industrial Classification.

SPECIFIC INSTRUCTIONS

Except as may be specifically requested, a report should be submitted for each establishment for which you received a preaddressed form. If additional forms are needed, please write to us specifying the address of the establishment for which a blank form is required. If you have any questions about the survey, write to the Bureau of the Census, Washington, D.C., 20233, referring to form MA-175 and to the file number in the upper right-hand corner of the address box. The basic concepts used in this survey (establishment, shipments, receipts, materials consumed, employment, etc.) are the same as those used in the Annual Survey of Manufactures (Form MA-100), and related figures reported on each form should agree.

Columns (1), (2), and (3) – These entries--lines a through l --should correspond with those entered in item 9 and item 9A for the Product Class Description, the Product Class Code, and the 1963 data column from the related Census form MA-100 for 1963.

The three lines "i," "j," and "k" that follow specific product class entries, are in the same position in which they appear on form MA-100. Only "j" is expected to be of particular importance on form MA-175; "i" is an item primarily of interest to manufacturing industries not covered by form MA-175, such as textiles and apparel, coating and engraving, etc.; "k" is used by manufacturers to list the shipments of products they buy and ship without any manufacturing or assembling, usually to round out a product line. Line "j" on the other hand, can be very important in this survey. Receipts for research and development that have not been separately identified on form MA-100 should be reported here. (Note that research and development receipts for certain aerospace activities are to be supplied in lines "a" – "h" in the appropriate class of product (37216,37223,37226,37293,37294,19253).) \Line "j" would also be used for reporting receipts for installation or testing. Installation or testing costs of more than $1 million done at other locations should not be reported on the form for the manufacturing plant. Instead, a separate MA-175 form should be filed for each such installation or test site. If you have such cases, it would be desirable to write to the Census Bureau describing the situation before completing the MA-175 forms.

Columns (4) through (7) – Data reported should represent the total value of shipments, billings, or receipts (in $000) from Federal Government agencies during 1963. For long lead time production or research, development, testing, and evaluation programs, the value of work done during the year is reported on the Annual Survey of Manufactures and on this report. Such a figure is represented by net billings, or payments received by you (including progress payments), for work done during the year. This method of estimating shipments to the Government has frequent application to work done on aircraft, ships, missiles, space vehicles, and the like, as well as work done on related systems.

Columns (8) through (13) – Data reported should represent the value of receipts (in $000) for work done by you for Government prime contractors and subcontractors for use in the performance of Government contracts. It is recognized that indirect Government work is not always identified as such. In view of this, it will be acceptable to use as a base receipts on Government subcontracts subject to the Renegotiation Act of 1951, as amended. Note particularly that the value of transfers to other plants of the company as well as receipts from contractors outside the company are to be included.

Columns (8) through (11) – Data entered should represent the value of receipts (in $000) for work done by you on subcontracts of DOD, NASA, AEC, and other Government agencies when the Government agency placing the prime contract is known to you.

Columns (12) or (13) – Receipts for work done by you on Government subcontracts for which Government agency the prime contract is not specifically known to you should be entered. If you know that the subcontract work is for DOD, NASA, or AEC, but you cannot specifically determine which, enter the value of receipts (in $000) in **column (12)**. If the subcontract work is for another Government agency, or for a Government agency unknown to you, enter the value of receipts (in $000) in **column (13)**.

Column (14) – Data reported should represent the difference between the total values of shipments and/or receipts, **column (3)**, and the sum of entries in **columns (4) through (13)**.

Name of person to contact regarding this report	Address *(Number and street, city, State, ZIP code)*	Telephone No.

CERTIFICATION – This report is substantially accurate and has been prepared in accordance with instructions.

Name of company	Address *(Number and street, city, State, ZIP code)*	
Signature of authorized official	Title	Date

REPORT ON SHIPMENTS TO OR RECEIPTS FOR WORK DONE FOR FEDERAL GOVERNMENT AGENCIES AND THEIR CONTRACTORS AND SUPPLIERS IN 1963

ITEM 3	a. Total employment of this establishment, average for the year 1963 *(Same as item 2h, 1963 column, Census form MA-100)* →	Total employees	b. Total materials, fuels consumed, etc., in 1963 by this establishment for all purposes *(Same as item 5f, 1963 column, Census form MA-100)* →	Thousands of dollars	c. Name of establishment *(Enter from address box on front of form)*	d. 11-digit file No.

ITEM 4 – VALUE OF SHIPMENTS AND OTHER RECEIPTS OF THIS ESTABLISHMENT IN 1963

(Report values in thousands of dollars)

Product classes of this establishment *(Describe)*	Product class code	Total value of shipments and/or receipts	Shipments to or receipts for work done for Federal Government agencies and their contractors and suppliers in 1963										Other shipments *(Column 3 minus column 4 through column 13)*
			Direct on prime contracts				Indirect on subcontracts						
							Government agency specifically known				Government agency not specifically known		
			DOD	NASA	AEC	Other Federal agencies	DOD	NASA	AEC	Other	Either DOD, NASA, or AEC	Other	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
a.													
b.													
c.													
d.													
e.													
f.													
g.													
h.													
i. Receipts for work or services performed by you for others on their materials *(Describe)*	93000												
j. Other receipts – Particularly R and D not identified as to specific product class, and receipts for installation or testing *(See instructions)*	99980												
k. Shipments of products bought and resold without further manufacture, processing, or assembly	99989												
l. TOTAL → *(Same as item 9, line l, 1963 column, Census form MA-100)*	77000												

FORM MA-175 (6-29-64)

Survey of the Origin of Exports of Manufactured Products: 1963

ORIGIN OF EXPORTS OF MANUFACTURED PRODUCTS

This report covering the years 1963 and 1960 includes distributions of manufacturers' exports by producing divisions, States, and standard metropolitan statistical areas (SMSA) and by Standard Industrial Classifications (SIC) of the producing plants. This information was reported by manufacturers to the Census Bureau for products that the manufacturers knew were to be exported by the plant directly or through others with no additional manufacturing.

Table 1, Value of Exports of Manufactured Products, with Estimates by Divisions and States and by Major Product Groups: 1963 and 1960, was first released by the Secretary of Commerce on January 15, 1965. The table includes a distribution by division and State of total national exports of manufactured products, amounting to $16.3 billion in 1963 and $14.3 billion in 1960 at f.o.b. factory prices. The manufacturing establishments reporting in the survey for 1963 accounted for $11.0 billion or a little more than two-thirds of the total value f.o.b. plant of all U.S. exports of manufactured products in 1963. The balance, exported through wholesalers or other purchasers whose intention to export was not known to the manufacturers, and by small manufacturers not covered in the survey, was allocated among areas by the Census Bureau. [1]

The total export figures for 1960 in table 1 differ from those published for 1960 following the earlier survey of exports of manufactured products. Figures in the previous 1960 survey included exports to Puerto Rico and bunker sales of fuel to foreign vessels. These have been omitted in the present survey to bring the export figures more closely in agreement with the national totals released by the Foreign Trade Division of the Census Bureau. The division, State, and standard metropolitan statistical area statistics for 1960 also differ from the previously published 1960 data. The 1960 figures appeared on the 1963 schedule and in some instances were changed or revised by the manufacturers. Changes in the manner in which transportation and warehousing costs were estimated also account for some difference between plant and port price in the two years' figures.

Tables 2A, 2B, 2C, and 2D contain geographic distributions on export origin data actually reported by the manufacturers in the survey. Table 2A provides information on reported exports on a basis comparable with table 1 estimates of total f.o.b. value. Estimates of total f.o.b. value were not prepared for the more detailed product classifications of reported exports shown in tables 2B, 2C, and 2D. Although short of national foreign trade totals, the figures in these tables underscore the widespread nature of exporting in the manufacturing field, and the industries participating.

Table 3 provides information on value of exports reported by the 4, 8, and 20 largest exporters in selected industry groups, and estimates of total exports represented by these companies. Since a portion of manufactured exports are exported through wholesalers or other purchasers whose intention to export was not known to the manufacturers, it is not possible to obtain exact figures from the reporting manufacturers of total exports. However, the data are provided here as some indication of the relative share of total exports accounted for by the largest exporting companies.

The export figures reported by manufacturers are from a survey of plants with more than 100 employees included in the annual survey of manufactures and exporting more than $25,000 per year. A previous study on distribution of manufacturers' sales showed that

plants of this size accounted for practically all exports of products known to the manufacturing company. Establishments for some industries with a small amount of exports in relation to the total number of establishments involved, were asked to report in the survey only when the parent company was known to export at least $1.0 million per year. Industries handled in this fashion included the textile, apparel, lumber, and furniture groups, and some individual industries in other groups.

Manufacturers reported total exports made by each establishment. The industry or product classification of the exports reported in the survey, therefore, depend upon the industry classification of the plants as assigned in the annual survey of manufactures. At the level of the 20 broad groupings particularly, the industry classification is very close to product classification. In technical classification language, the amount of secondary products crossing broad 2-digit lines is relatively unimportant. In cases where there are a few establishments represented in a particular figure and the industry classification is finer than the 20 broad classes, differences will arise between industry and product, but these classification problems are not considered more important than other reporting problems in this field. The significance of the difference between products and industry at the 4-digit level is shown in the 1958 Census of Manufactures publication MC58(S)-4, Industry Descriptions (see Specialization Ratio).

The relation of the commodity information from the survey to the commodity data in the national foreign trade statistics was made possible by the classification system provided in the recent Census publication, "U.S. Commodity Exports Imports as Related to Output, 1962 and 1961."

[1]The method of allocating the residual exports varied by industry. In industries in which the survey accounted for two-thirds or more of the factory value of total exports, each State was assigned the proportion of residual exports that corresponded to its share of total exports for the industry group. In industries in which the survey accounted for less than a third of the factory value of exports, each State was assigned the proportion of residual exports in an industry group that corresponded to its share of total U.S. employment by that industry group as reported in the annual survey of manufactures. In the remaining industry groups, the distribution was developed by taking into account both the State export and manufacturing employment distributions. The distribution of residual exports was made on the basis of some 100 industry groups (technically and primarily 3-digit SIC groups).

Table 1.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS, WITH ESTIMATES

(See table 2A for exports by States for figures actually

(Million

	Geographic division and State	Total exports of manufactured products			Food and kindred products (20)			Tobacco manufactures[1] (21)			Textile mill products (22)			Apparel and related products (23)		
		1963	1960	Percent change	1963	1960	Percent change	1963	1960	Percent change	1963	1960	Percent change	1963	1960	Percent change
1	Total value at port	18,289.8	16,092.5	(d)	1,919.4	1,547.5	(d)	520.9	476.0	(d)	357.9	382.7	(d)	131.4	125.2	(d)
2	Total value f.o.b., producing plant	16,277.4	14,343.2	13	1,710.2	1,384.0	24	498.7	456.7	9	266.2	284.0	-6	119.5	114.4	4
3	New England	1,091.9	921.0	19	39.0	27.2	43	0.2	0.2	(c)	31.0	32.4	-4	9.6	9.1	5
4	Maine	41.7	37.8	10	7.6	5.7	33	-	-	-	2.2	2.4	-7	0.3	0.3	(c)
5	New Hampshire	40.0	45.8	-12	1.0	0.7	(c)	-	-	-	1.9	2.0	-1	0.1	0.1	(c)
6	Vermont	34.5	25.0	38	1.8	1.0	(b)	-	-	-	0.1	0.1	(c)	0.2	0.3	(c)
7	Massachusetts	526.2	401.2	31	21.0	14.6	44	-	-	-	15.1	15.4	-2	6.7	6.2	8
8	Rhode Island	59.2	52.4	13	2.2	1.5	47	-	-	-	7.9	8.2	-4	0.6	0.6	(c)
9	Connecticut	390.3	358.7	9	5.4	3.7	48	0.2	0.2	(c)	3.8	4.3	-13	1.7	1.7	-1
10	Middle Atlantic	3,526.4	r3,092.4	14	210.8	196.0	8	3.2	3.1	4	38.6	41.7	-8	52.5	52.1	1
11	New York	1,447.0	1,228.4	18	110.9	113.9	-3	0.1	0.1	(c)	12.5	13.4	-6	31.6	30.6	3
12	New Jersey	841.7	777.7	8	50.9	46.8	9	0.5	0.4	(c)	8.8	9.8	-10	7.5	7.1	5
13	Pennsylvania	r1,237.7	r1,086.3	14	48.9	35.4	38	2.6	2.6	(a)	17.2	18.5	-7	13.4	14.3	-7
14	East North Central	4,918.6	r4,173.8	18	355.5	278.2	28	2.5	2.2	17	10.6	10.0	5	12.0	10.4	15
15	Ohio	1,419.7	1,218.6	17	53.2	38.1	40	(T)	(T)	(D)	4.7	4.2	11	2.0	1.7	16
16	Indiana	471.9	390.2	21	40.6	33.8	20	(S)	(S)	(c)	0.3	0.3	(c)	1.2	1.1	11
17	Illinois	1,440.5	r1,261.6	r14	178.6	145.0	23	0.6	0.5	(c)	2.8	2.7	2	4.2	3.8	10
18	Michigan	1,086.3	918.0	18	39.4	29.2	35	(S)	(S)	(c)	1.3	1.3	2	3.7	2.9	25
19	Wisconsin	500.2	385.4	30	43.7	32.1	36	-	-	-	1.4	1.5	-4	0.9	0.6	(c)
20	West North Central	804.7	672.8	20	244.3	204.1	20	0.8	0.7	(c)	2.4	1.8	32	5.8	5.5	(a)
21	Minnesota	193.7	146.6	32	39.3	33.7	17	-	-	-	1.2	0.6	(c)	2.2	2.3	-3
22	Iowa	239.6	218.9	9	53.0	56.3	-6	-	-	-	-	-	-	0.4	0.4	(c)
23	Missouri	204.6	175.1	17	58.5	50.3	16	0.8	0.7	(c)	1.2	1.2	2	2.5	2.4	7
24	North Dakota	1.6	1.1	46	1.4	0.9	(c)	-	-	-	-	-	-	-	-	-
25	South Dakota	7.9	5.8	35	6.0	4.2	41	-	-	-	-	-	-	-	-	-
26	Nebraska	40.3	34.3	18	24.8	20.6	20	-	-	-	-	-	-	0.2	0.2	(c)
27	Kansas	117.1	91.0	29	61.3	38.0	(b)	-	-	-	0.1	0.1	(c)	0.4	0.4	(c)
28	South Atlantic	r1,816.7	r1,626.4	10	133.5	99.0	35	488.2	446.3	9	157.2	167.8	-6	18.1	17.8	2
29	Delaware	28.2	22.8	23	4.3	3.5	22	-	-	-	0.9	1.0	(c)	0.3	0.4	(c)
30	Maryland	224.9	213.2	5	26.8	20.3	32	0.1	0.1	(c)	0.5	0.5	(c)	1.4	1.2	12
31	District of Columbia	8.1	6.5	24	2.5	1.6	(b)	-	-	-	-	-	-	0.1	-	(c)
32	Virginia	367.8	335.3	10	19.8	14.8	34	180.0	172.3	4	19.8	20.2	-2	2.0	2.0	5
33	West Virginia	154.1	140.4	10	1.8	1.2	44	0.6	0.6	(c)	0.2	0.2	(c)	0.3	0.3	(c)
34	North Carolina	482.8	438.2	10	17.2	12.8	34	306.1	271.3	13	64.8	67.6	-4	4.4	4.1	7
35	South Carolina	115.1	103.9	11	5.9	4.1	43	0.4	0.3	(c)	44.3	47.6	-7	2.1	2.5	-15
36	Georgia	r208.1	r205.4	r1	29.5	22.0	34	0.1	0.1	(c)	26.5	30.2	-12	6.5	6.4	2
37	Florida	227.6	r160.8	r42	25.8	18.5	39	1.0	1.6	(c)	0.3	0.4	(c)	0.8	0.8	(c)
38	East South Central	592.3	517.3	14	85.3	64.7	32	3.7	4.2	-10	19.7	23.3	-15	9.9	8.8	13
39	Kentucky	167.3	151.3	11	18.9	9.9	(b)	2.2	2.8	-22	0.5	0.5	(c)	1.4	1.2	17
40	Tennessee	188.1	187.7	(a)	37.2	32.6	14	1.5	1.3	15	6.5	9.1	-28	3.5	3.0	17
41	Alabama	135.1	102.6	32	12.2	9.1	34	-	-	-	10.5	12.6	-17	3.1	2.9	7
42	Mississippi	101.9	75.7	34	17.0	13.1	30	-	-	-	2.2	1.1	(b)	1.9	1.6	15
43	West South Central	1,357.7	1,225.6	11	332.8	261.4	27	-	-	-	3.3	3.5	-6	3.9	3.7	5
44	Arkansas	84.4	66.5	27	56.0	44.7	25	-	-	-	0.6	0.5	(c)	0.5	0.4	(c)
45	Louisiana	283.2	258.5	10	56.8	37.2	(b)	-	-	-	0.3	0.3	(c)	0.3	0.3	(c)
46	Oklahoma	91.0	73.8	23	25.2	13.4	(b)	-	-	-	0.3	0.4	(c)	0.3	0.3	(c)
47	Texas	899.1	826.8	9	194.7	166.0	17	-	-	-	2.2	2.4	-8	2.8	2.6	5
48	Mountain	227.4	180.8	26	32.9	24.8	32	-	-	-	0.1	0.1	(c)	0.6	0.5	(c)
49	Montana	16.3	7.4	(b)	1.5	1.1	45	-	-	-	-	-	-	-	-	-
50	Idaho	15.5	11.4	36	5.6	4.0	40	-	-	-	-	-	-	-	-	-
51	Wyoming	1.4	0.9	(c)	0.6	0.4	(c)	-	-	-	-	-	-	-	-	-
52	Colorado	72.9	59.7	22	13.8	11.3	22	-	-	-	(S)	(S)	(c)	0.2	0.2	(c)
53	New Mexico	20.7	20.0	3	2.2	1.5	48	-	-	-	-	-	-	-	-	-
54	Arizona	46.8	29.4	(b)	4.3	2.6	(b)	-	-	-	(S)	(S)	(c)	0.2	0.1	(c)
55	Utah	47.9	47.2	2	4.5	3.9	16	-	-	-	(S)	(S)	(c)	0.2	0.2	(c)
56	Nevada	6.0	4.9	22	0.4	0.2	(c)	-	-	-	-	-	-	-	-	-
57	Pacific	r1,939.2	r1,931.5	(a)	276.2	228.5	21	-	-	-	3.3	3.2	1	7.2	6.5	10
58	Washington	300.9	478.0	-37	34.2	32.2	6	-	-	-	0.1	0.1	(c)	0.7	0.7	-8
59	Oregon	88.4	76.5	16	20.0	16.0	25	-	-	-	0.5	0.5	(c)	0.4	0.3	(c)
60	California	r1,494.2	r1,334.0	r12	206.2	164.8	25	-	-	-	2.6	2.6	1	5.9	5.3	13
61	Alaska	37.6	25.7	15	1.7	1.3	30	-	-	-	-	-	-	-	-	-
62	Hawaii	18.2	17.3	11	14.1	14.2	-1	-	-	-	-	-	-	0.2	0.2	(c)

See footnotes at end of table.

ORIGIN OF EXPORTS

BY DIVISIONS AND STATES AND BY MAJOR INDUSTRY GROUPS: 1963 AND 1960

reported to the Census Bureau by exporting manufacturers)

dollars)

Lumber and wood products (24)			Furniture and fixtures (25)			Paper and allied products (26)			Printing and publishing (27)			Chemicals and allied products (28)			Petroleum and coal products (29)			
1963	1960	Percent change	1963	1960	Percent change	1963	1960	Percent change	1963	1960	Percent change	1963	1960	Percent change	1963	1960	Percent change	
229.3	181.0	(d)	33.2	37.9	(d)	504.5	419.3	(d)	188.9	148.0	(d)	2,132.5	1,966.6	(d)	538.4	497.5	(d)	1
192.9	152.3	27	26.4	30.2	-13	452.0	376.1	20	168.5	132.0	28	1,869.5	1,728.2	8	428.5	393.6	9	2
9.5	7.2	32	1.3	1.5	-12	33.9	27.1	25	7.6	6.1	23	49.0	52.7	-7	0.4	0.4	(c)	3
4.2	3.1	32	-	-	-	11.2	9.5	18	0.2	0.1	(c)	1.4	2.0	-26	-	-	-	4
1.5	1.2	32	0.1	0.1	(c)	3.3	3.6	-7	0.2	0.2	(c)	-	-	-	-	-	-	5
1.1	0.8	33	0.1	0.1	(c)	0.6	0.5	(c)	0.1	0.1	(c)	-	-	-	-	-	-	6
2.0	1.5	33	0.7	0.8	(c)	14.1	10.9	29	4.7	3.7	26	23.0	28.0	-18	(S)	(S)	(c)	7
0.2	0.1	(c)	-	-	-	0.1	0.1	(c)	0.3	0.2	(c)	2.4	1.1	(b)	(S)	(S)	(c)	8
0.6	0.5	(c)	0.2	0.3	(c)	4.6	2.5	81	2.1	1.8	16	22.1	21.6	3	-	-	-	9
11.0	8.3	33	4.7	5.3	-13	38.2	31.2	22	81.9	68.6	20	456.7	438.5	4	83.4	83.6	(a)	10
5.3	4.0	33	2.4	2.8	-12	14.7	13.4	9	64.6	48.6	33	131.9	139.1	-5	5.5	6.0	-8	11
1.8	1.4	33	0.6	0.7	(c)	10.2	8.3	23	5.4	4.1	32	190.6	189.3	1	48.1	46.7	3	12
3.9	3.0	33	1.6	1.8	-13	13.4	9.5	41	11.9	15.9	-25	134.2	110.1	22	29.8	30.9	-3	13
19.0	14.3	33	6.0	6.9	-13	29.7	22.9	30	47.3	31.6	49	271.3	237.9	14	10.2	9.6	6	14
2.6	1.9	33	1.2	1.4	-13	9.5	8.1	18	7.2	6.2	17	72.3	65.9	10	(T)	(T)	(D)	15
3.7	2.8	33	1.5	1.7	-12	2.1	1.5	37	3.1	2.4	32	18.1	18.5	-2	(T)	(T)	(D)	16
3.2	2.4	33	1.6	1.8	-12	6.8	4.6	47	31.3	19.1	64	62.2	49.9	25	4.2	3.9	9	17
3.7	2.8	33	1.2	1.4	-13	5.6	3.9	43	2.0	1.6	25	113.5	99.2	14	(T)	(S)	(D)	18
5.8	4.4	33	0.5	0.6	-13	5.6	4.6	21	3.6	2.4	(b)	5.2	4.4	17	-	-	-	19
6.8	5.1	33	0.9	1.0	(c)	10.4	11.5	-10	6.8	5.3	28	49.0	37.8	30	1.4	2.6	-44	20
2.0	1.5	33	0.2	0.2	(c)	7.1	9.1	-23	1.5	1.3	23	7.2	8.1	-11	(S)	(S)	(c)	21
1.3	1.0	(c)	0.2	0.2	(c)	0.4	0.3	(c)	1.6	1.3	21	5.9	4.1	45	-	-	-	22
2.5	1.9	33	0.3	0.3	(c)	2.6	1.9	39	2.5	1.8	39	28.9	22.6	28	(S)	(S)	(c)	23
-	-	-	-	-	-	-	-	-	0.1	0.1	(c)	-	-	-	-	-	-	24
0.5	0.4	(c)	-	-	-	-	-	-	0.1	0.1	(c)	-	-	-	-	-	-	25
0.3	0.2	(c)	0.1	0.1	(c)	0.2	0.1	(c)	0.4	0.3	(c)	2.3	0.5	(b)	-	-	-	26
0.2	0.2	(c)	0.2	0.2	(c)	0.2	0.1	(c)	0.5	0.4	(c)	4.7	2.5	(b)	(S)	(T)	(D)	27
34.8	26.2	33	(U)	(U)	(D)	130.9	122.3	7	10.5	8.9	18	352.3	315.9	12	(T)	(T)	(D)	28
0.4	0.3	(c)	-	-	-	0.1	0.1	(c)	0.1	0.1	(c)	10.2	8.5	20	-	-	-	29
1.6	1.2	33	(S)	(S)	(c)	1.0	0.8	(c)	1.1	0.9	(c)	29.9	26.9	11	(T)	(S)	(D)	30
-	-	-	-	-	-	0.2	0.1	(c)	5.2	4.6	13	0.1	-	(c)	-	-	-	31
6.6	5.0	33	1.3	1.5	13	13.3	15.4	-13	1.1	0.9	(c)	78.3	68.1	15	-	-	-	32
2.2	1.6	33	(S)	(S)	(c)	0.2	0.2	(c)	0.3	0.2	(c)	97.5	80.1	22	(S)	(S)	(c)	33
8.8	6.6	33	3.5	4.1	-13	14.6	15.3	-4	0.7	0.6	(c)	13.7	11.9	15	-	-	-	34
5.2	3.9	33	(S)	(S)	(c)	(U)	(U)	(D)	0.3	0.2	(c)	25.3	22.2	14	(S)	(S)	(c)	35
6.7	5.0	33	0.5	0.6	(c)	45.2	44.2	2	0.7	0.5	(c)	27.8	34.9	-21	-	-	-	36
3.4	2.6	33	(S)	(S)	(c)	47.3	39.1	21	1.0	0.8	(c)	69.6	63.2	10	-	-	-	37
21.8	16.7	30	2.0	2.3	-13	49.9	43.4	15	2.3	1.9	24	183.4	164.7	11	-	-	-	38
3.1	2.3	33	0.3	0.4	(c)	2.7	2.2	23	0.6	0.5	(c)	53.7	56.7	-5	-	-	-	39
5.1	3.8	33	1.1	1.2	-12	11.2	12.3	-9	1.2	1.0	24	74.5	72.5	3	-	-	-	40
7.1	5.7	25	0.2	0.3	(c)	6.0	5.5	9	0.4	0.3	(c)	36.4	21.9	(b)	-	-	-	41
6.5	4.9	33	0.4	0.5	(c)	30.1	23.4	28	0.2	0.1	(c)	18.8	13.6	38	-	-	-	42
18.8	14.2	33	1.6	1.9	-13	20.0	18.6	8	3.1	2.5	25	413.2	389.1	6	253.7	212.5	19	43
7.7	5.8	33	0.6	0.7	(c)	1.8	1.8	1	0.2	0.2	(c)	2.3	1.4	(b)	(S)	(S)	(c)	44
5.1	3.8	33	0.1	0.1	(c)	10.6	8.8	21	0.4	0.3	(c)	95.5	92.8	3	(X)	(X)	(D)	45
0.5	0.4	(c)	0.1	0.1	(c)	(S)	(S)	(c)	0.4	0.3	(c)	0.9	0.9	(c)	12.9	7.7	69	46
5.5	4.2	33	0.8	0.9	(c)	7.0	7.9	-12	2.0	1.6	25	314.5	294.0	7	169.0	144.4	17	47
8.5	6.4	33	0.2	0.2	(c)	(T)	(T)	(D)	1.5	1.2	25	16.9	10.1	(b)	(S)	(S)	(c)	48
2.4	1.8	33	-	-	-	-	-	-	0.1	0.1	(c)	-	-	-	-	-	-	49
3.5	2.6	33	-	-	-	(T)	(T)	(D)	0.1	0.1	(c)	(T)	(T)	(D)	-	-	-	50
0.3	0.2	(c)	-	-	-	-	-	-	-	-	-	-	-	-	(S)	(S)	(c)	51
0.7	0.5	(c)	0.1	0.1	(c)	0.2	0.1	(c)	0.6	0.5	(c)	9.8	3.9	(b)	(S)	(S)	(c)	52
0.6	0.4	(c)	-	-	-	-	-	-	0.1	0.1	(c)	(T)	(T)	(D)	-	-	-	53
0.7	0.6	(c)	0.1	0.1	(c)	-	-	-	0.3	0.3	(c)	(S)	(S)	(c)	-	-	-	54
0.2	0.2	(c)	-	-	-	-	-	-	0.2	0.1	(c)	(S)	(S)	(c)	-	-	-	55
0.1	0.1	(c)	-	-	-	-	-	-	-	-	-	(S)	(S)	(c)	-	-	-	56
62.1	53.3	17	2.5	2.8	-12	136.6	97.8	40	7.5	6.0	26	77.8	81.5	-5	76.1	83.0	-8	57
17.0	14.0	21	(S)	(S)	(c)	87.2	59.5	47	0.7	0.6	(c)	7.6	5.2	46	(S)	(S)	(c)	58
28.3	23.7	19	0.1	0.1	(c)	7.5	8.5	-12	0.3	0.3	(c)	1.5	1.1	29	-	-	-	59
16.3	15.2	7	2.1	2.4	-13	6.3	5.5	16	6.3	5.0	27	68.7	75.2	-9	75.0	82.6	-9	60
0.4	0.3	-	-	-	(c)	35.4	24.0	47	-	-	-	-	-	-	-	-	-	61
0.1	0.1	(c)	(S)	(S)	(c)	0.2	0.2	(c)	-	-	-	-	-	-	(S)	-	(c)	62

Table 1.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS, WITH ESTIMATES

(See table 2A for exports by States for figures actually

(Million

	Geographic division and State	Rubber and plastics products, n.e.c. (30)			Leather and leather products (31)			Stone, clay, and glass products (32)			Primary metal industries (33)			Fabricated metal products (34)		
		1963	1960	Percent change	1963	1960	Percent change	1963	1960	Percent change	1963	1960	Percent change	1963	1960	Percent change
1	Total value at port.	258.3	238.3	(d)	64.3	58.2	(d)	235.0	206.1	(d)	952.0	1,198.5	(d)	619.2	468.6	(d)
2	Total value f.o.b. producing plants...	240.1	219.4	9	60.8	55.0	11	197.7	173.4	14	852.1	1,072.3	-21	546.6	410.9	33
3	New England.....	32.3	27.7	17	23.4	20.5	14	14.7	14.5	2	21.1	21.6	-2	44.3	37.0	20
4	Maine.....	0.6	0.3	(c)	4.0	3.7	9	-	-	-	(S)	(S)	(c)	(S)	(S)	(c)
5	New Hampshire.....	0.3	0.3	(c)	3.9	3.1	24	0.2	0.1	(c)	0.6	(U)	(c)	-	-	-
6	Vermont.....	0.8	0.5	(c)	0.1	0.1	(c)	(S)	(S)	(c)	0.2	(S)	(c)	-	-	-
7	Massachusetts.....	22.6	19.7	15	14.2	12.1	18	10.2	10.2	(a)	6.7	5.6	21	22.7	18.0	26
8	Rhode Island.....	2.9	2.5	18	0.2	0.2	(c)	1.0	0.7	(c)	2.8	3.7	-23	1.3	1.4	-8
9	Connecticut.....	5.1	4.5	14	0.9	1.3	(c)	3.2	3.4	-5	10.7	4.8	123	20.1	17.3	16
10	Middle Atlantic.....	46.4	39.2	18	13.9	13.0	6	59.1	59.3	(a)	271.3	343.9	-21	127.8	98.8	29
11	New York.....	15.1	12.3	23	7.1	6.6	8	25.8	25.0	3	43.6	71.3	-39	23.1	16.8	38
12	New Jersey.....	17.2	14.9	15	2.1	2.1	3	13.5	12.4	9	50.1	56.5	-11	24.9	21.6	15
13	Pennsylvania.....	14.1	12.0	17	4.6	4.4	5	19.9	21.9	-9	177.6	216.0	-18	79.8	60.4	32
14	East North Central.....	100.3	96.5	4	10.9	8.8	23	66.6	54.3	23	215.4	249.6	-14	206.2	160.1	29
15	Ohio.....	63.3	69.0	-8	2.3	2.1	10	29.8	26.8	11	104.0	116.1	-10	80.8	64.7	25
16	Indiana.....	10.2	5.9	(b)	0.4	0.4	(c)	3.4	3.8	-11	32.2	30.2	7	19.8	15.6	27
17	Illinois.....	16.1	13.0	24	2.7	2.6	2	10.6	7.8	36	28.5	34.6	-18	49.7	43.1	15
18	Michigan.....	8.1	6.9	18	2.7	0.8	(c)	14.5	12.3	18	42.4	60.4	-30	37.3	22.8	63
19	Wisconsin.....	2.6	1.7	49	2.8	2.9	-3	8.4	3.6	(b)	8.2	8.2	(a)	18.5	13.9	33
20	West North Central.....	9.4	10.2	-8	4.2	4.3	-2	14.9	10.5	42	7.6	12.0	-36	19.5	15.0	30
21	Minnesota.....	(T)	(T)	(D)	0.2	0.2	(c)	0.1	-	(c)	0.7	1.0	(c)	2.3	2.1	11
22	Iowa.....	1.8	2.5	-27	0.1	0.1	(c)	-	-	-	3.1	2.8	11	5.1	4.2	22
23	Missouri.....	(T)	(T)	(D)	3.9	4.0	-2	12.7	9.1	40	2.6	6.7	(b)	7.4	5.1	46
24	North Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	South Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Nebraska.....	1.1	0.7	(c)	-	-	-	-	-	-	0.4	0.6	(c)	2.2	0.9	(b)
27	Kansas.....	(T)	(T)	(D)	-	-	-	2.0	1.4	43	0.8	0.9	(c)	2.4	2.8	-14
28	South Atlantic.....	10.7	10.2	5	3.1	3.0	4	15.2	12.6	20	81.5	120.4	-32	39.7	24.8	(c)
29	Delaware.....	1.6	1.7	-6	1.0	0.9	(c)	-	-	-	1.9	1.6	18	4.0	2.0	(b)
30	Maryland.....	4.4	4.3	1	0.3	0.3	(c)	6.4	5.4	19	49.3	78.7	-37	4.4	5.2	-15
31	District of Columbia.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Virginia.....	2.5	2.2	13	0.6	0.6	(c)	0.5	0.4	(c)	1.4	1.6	-9	5.4	2.1	(b)
33	West Virginia.....	0.1	-	(c)	0.2	0.2	(c)	4.7	4.6	3	24.4	29.7	-18	2.8	2.4	14
34	North Carolina.....	1.0	0.9	(c)	0.3	0.3	(c)	1.1	0.3	(c)	0.5	4.0	(c)	9.3	7.0	33
35	South Carolina.....	0.5	0.5	(c)	-	-	-	2.1	1.7	22	0.1	-	(c)	1.1	0.3	(c)
36	Georgia.....	0.4	0.3	(c)	0.5	0.5	(c)	0.4	0.3	(c)	2.8	3.2	-13	8.5	3.9	(b)
37	Florida.....	0.2	0.2	(c)	0.1	0.1	(c)	-	-	-	1.1	1.5	-28	4.3	1.9	(b)
38	East South Central.....	13.6	13.7	-1	2.5	2.5	(a)	9.2	8.0	14	36.0	40.2	-10	27.5	22.3	23
39	Kentucky.....	(S)	(S)	(c)	0.4	0.3	(c)	6.1	6.1	-1	(T)	(U)	(D)	5.4	5.3	3
40	Tennessee.....	(U)	(U)	(D)	1.8	1.8	2	1.8	0.9	(b)	(U)	(V)	(D)	4.5	8.1	-44
41	Alabama.....	5.9	5.5	8	0.1	0.1	(c)	0.3	0.2	(c)	28.3	22.4	26	6.4	3.3	(b)
42	Mississippi.....	0.2	0.2	(c)	0.2	0.2	(c)	1.0	0.8	(c)	0.1	0.1	(c)	11.1	5.6	(b)
43	West South Central.....	8.5	7.8	8	1.4	1.4	-2	5.7	3.9	48	69.0	127.3	-46	39.9	21.2	(b)
44	Arkansas.....	(S)	(S)	(c)	1.2	1.2	-2	-	-	-	(T)	(T)	(D)	0.2	0.4	(c)
45	Louisiana.....	-	-	-	-	-	-	-	-	-	(W)	(W)	(D)	5.2	3.2	(b)
46	Oklahoma.....	(U)	(U)	(D)	-	-	-	1.2	1.3	-8	(T)	(V)	(D)	11.6	4.6	(b)
47	Texas.....	2.0	1.9	9	0.2	0.2	(c)	3.5	1.3	(b)	32.6	67.1	-51	22.9	13.0	(b)
48	Mountain.....	6.5	4.0	(b)	0.3	0.3	(c)	0.3	0.3	(c)	59.6	54.4	10	1.8	1.3	33
49	Montana.....	-	-	-	-	-	-	-	-	-	(V)	(T)	(D)	-	-	-
50	Idaho.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51	Wyoming.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52	Colorado.....	5.9	3.8	(b)	0.3	0.3	(c)	-	-	-	7.6	12.0	-47	1.6	1.3	28
53	New Mexico.....	-	-	-	-	-	-	-	-	-	(V)	(V)	(D)	-	-	-
54	Arizona.....	0.1	0.1	(c)	-	-	-	-	-	-	(U)	(T)	(D)	0.1	-	(c)
55	Utah.....	0.5	0.2	(c)	-	-	-	0.1	0.1	(c)	(V)	(V)	(D)	-	-	-
56	Nevada.....	-	-	-	-	-	-	0.2	0.2	(c)	(T)	(T)	(D)	-	-	-
57	Pacific.....	12.4	10.1	22	1.2	1.1	7	11.9	9.9	20	90.6	103.2	-12	38.8	30.2	28
58	Washington.....	0.1	0.1	(c)	0.1	0.1	(c)	1.0	0.5	(c)	54.7	53.8	2	0.5	1.0	(c)
59	Oregon.....	-	-	-	-	-	-	0.5	0.4	(c)	6.1	6.0	3	0.6	0.2	(c)
60	California.....	12.3	10.0	22	1.1	1.0	8	9.3	8.5	9	29.8	43.4	-31	37.5	28.9	30
61	Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62	Hawaii.....	-	-	-	-	-	-	1.2	0.4	(c)	-	-	-	0.2	-	(c)

Note: Figures may not add because of rounding. Percent change was calculated on unrounded data.

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. [r]Revised.
[1]Exceeds the Foreign Trade totals for tobacco manufactures because of the inclusion of tobacco stemming and redrying.

RANGES:
(S) Less than $1.0 million.
(T) $1.0 to $4.9 million.
(U) $5.0 to $9.9 million.
(V) $10.0 to $24.9 million.
(W) $25.0 to $49.9 million.
(X) $50.0 to $99.9 million.
(Y) $100.0 million or more.

PERCENT CHANGES:
(a) Less than 0.5 percent.
(b) More than 50 percent change.
(c) Percent change not calculated in instances where exports were less than $1.0 million.
(d) Percent change not calculated because of comparability with the f.o.b. totals.

BY DIVISIONS AND STATES AND BY MAJOR INDUSTRY GROUPS: 1963 AND 1960--Continued

reported to the Census Bureau by exporting manufacturers)

dollars)

Machinery, except electrical (35)			Electrical machinery (36)			Transportation equipment (37)			Instruments and related products (38)			Miscellaneous manufacturing and ordnance and accessories (39 and 19)			
1963	1960	Percent change	1963	1960	Percent change	1963	1960	Percent change	1963	1960	Percent change	1963	1960	Percent change	
3,842.1	3,130.5	(d)	1,366.4	1,036.6	(d)	2,807.4	2,749.8	(d)	813.1	591.7	(d)	775.6	632.5	(d)	1
3,473.3	2,827.0	23	1,206.8	919.2	31	2,590.6	2,551.4	2	697.2	507.4	37	679.8	555.7	22	2
282.9	242.8	17	145.0	77.8	86	166.8	167.2	(a)	83.2	63.8	30	96.9	84.3	15	3
2.9	3.8	-23	1.0	0.5	(c)	3.3	4.0	-17	-	-	-	2.6	2.0	29	4
21.5	24.2	-11	4.4	2.2	(b)	(S)	(S)	(c)	0.3	0.3	(c)	0.4	0.3	(c)	5
18.7	14.8	27	2.4	2.0	23	(S)	(S)	(c)	0.7	0.5	(c)	7.4	4.0	(b)	6
139.1	116.0	20	110.9	52.8	110	15.1	7.4	(b)	56.9	42.6	34	40.3	35.5	14	7
19.6	17.5	12	4.0	2.7	49	0.7	0.7	(c)	3.0	2.5	20	9.6	8.4	15	8
81.0	66.4	22	22.2	17.6	26	147.6	155.0	-5	22.2	17.9	24	36.5	34.1	7	9
781.9	575.9	36	369.2	300.9	23	r436.4	r392.5	11	320.1	249.0	29	119.4	91.6	30	10
338.2	251.2	35	158.3	130.0	22	174.3	132.3	32	206.3	155.6	33	75.7	55.6	36	11
89.6	71.8	25	87.3	66.4	31	158.3	155.1	2	60.1	50.7	19	14.0	11.6	21	12
354.2	252.9	40	123.7	104.5	18	r103.7	r105.1	r-1	53.6	42.7	26	29.7	24.5	21	13
1,719.6	r1,446.6	r19	365.1	328.8	11	1,208.5	1,009.0	20	139.8	98.0	43	122.0	98.1	24	14
410.7	360.0	14	121.8	114.8	6	407.0	299.6	36	25.4	15.8	61	18.5	19.2	-4	15
106.8	85.3	25	65.2	64.9	1	130.4	100.7	29	17.4	7.3	(b)	12.9	10.8	19	16
738.5	r640.6	r15	112.4	90.8	24	81.6	116.8	-30	51.4	44.6	15	53.5	34.0	(b)	17
221.7	169.2	31	23.6	24.9	-5	528.1	452.2	17	21.8	12.0	(b)	13.5	12.7	7	18
241.8	191.5	26	42.2	33.4	26	61.5	39.7	55	23.8	18.2	30	23.6	21.3	11	19
214.6	177.3	21	51.1	51.7	-1	48.8	44.0	11	55.9	29.5	(b)	50.2	42.9	17	20
60.1	37.8	59	7.3	9.8	-26	0.9	0.8	(c)	44.2	22.5	(b)	15.3	13.0	18	21
117.3	99.1	18	32.3	33.1	-2	1.0	0.8	(c)	3.7	2.4	(b)	12.4	10.4	19	22
26.8	26.3	2	10.5	8.3	26	13.0	9.9	31	4.9	2.8	(b)	21.3	18.4	15	23
-	-	-	-	-	-	-	-	-	-	-	-	0.1	-	(c)	24
1.2	1.0	14	-	-	-	-	-	-	-	-	-	-	-	-	25
4.3	7.5	-42	-	-	-	0.8	0.6	(c)	2.5	1.3	(b)	0.8	0.7	(c)	26
4.9	5.6	-11	0.9	0.5	(c)	33.1	31.9	4	0.6	0.4	(c)	0.4	0.3	(c)	27
139.4	r80.6	r(b)	82.3	49.5	66	r50.3	r66.9	r-25	13.9	11.4	22	46.2	34.0	36	28
1.2	1.6	-23	0.3	0.3	(c)	1.1	0.3	(b)	0.8	0.6	(c)	0.1	0.1	(c)	29
29.2	25.0	17	39.8	16.5	(b)	12.6	17.1	-26	2.4	2.5	-3	11.9	4.9	(c)	30
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31
9.0	6.1	49	13.7	8.4	60	7.0	9.2	-24	1.0	0.9	(c)	4.4	3.6	20	32
11.7	10.6	10	4.8	6.4	-25	0.5	0.6	(c)	0.5	0.3	(c)	0.5	0.5	(c)	33
17.8	13.3	33	13.2	13.2	(a)	0.7	0.5	(c)	1.5	1.2	25	3.5	3.0	17	34
11.9	8.8	36	1.2	1.1	(b)	-	-	-	1.4	0.9	(c)	3.4	2.2	(b)	35
21.4	14.9	44	5.8	2.3	(b)	r22.1	r34.0	r-35	0.6	0.3	(c)	2.1	1.7	22	36
(W)	(S)	(c)	2.7	1.3	(b)	6.2	5.2	20	5.6	4.6	22	20.5	17.9	14	37
63.7	47.4	35	27.5	23.9	15	20.4	18.7	9	5.6	4.0	42	8.3	6.7	24	38
40.4	29.2	38	(V)	(V)	(D)	9.8	9.7	1	2.1	1.2	(b)	0.8	0.7	(c)	39
8.8	8.2	8	(U)	(T)	(D)	3.7	2.8	33	3.4	2.6	30	3.3	2.6	25	40
10.8	6.3	(b)	3.2	2.5	29	1.1	1.5	-25	0.1	0.1	(c)	2.8	2.4	18	41
3.6	3.6	(a)	1.5	1.3	16	5.7	4.7	21	-	-	-	1.4	1.0	41	42
104.5	107.9	-3	32.2	12.5	(b)	24.6	19.5	26	7.9	5.2	(b)	13.5	11.4	18	43
5.3	3.9	35	1.0	0.7	(c)	0.4	0.3	(c)	(S)	(S)	(c)	1.7	1.5	15	44
2.6	1.7	(b)	-	-	-	2.2	3.0	-27	-	-	-	3.1	2.7	15	45
18.7	16.9	11	0.4	0.2	(c)	6.4	5.0	27	(S)	(S)	(c)	0.8	0.7	(c)	46
77.9	85.4	-9	30.7	11.5	(b)	15.6	11.2	39	7.2	4.6	(b)	8.0	6.7	20	47
37.8	34.7	9	7.1	3.1	131	9.7	10.1	-4	5.5	2.8	(b)	35.0	24.5	43	48
-	-	-	-	-	-	(S)	(S)	(c)	-	-	-	-	-	-	49
-	-	-	-	-	-	0.3	0.3	(c)	-	-	-	0.5	0.5	(c)	50
-	-	-	-	-	-	-	-	-	0.1	0.1	(c)	-	-	-	51
18.7	15.5	20	4.0	1.8	162	1.2	1.3	-7	0.3	0.3	(c)	7.3	6.4	15	52
-	-	-	0.2	0.1	(c)	-	-	-	(S)	(S)	(c)	4.4	3.8	14	53
4.4	2.3	93	2.2	0.7	(c)	8.2	8.5	-4	4.9	2.4	(b)	15.0	7.0	(b)	54
14.7	16.8	-13	0.6	0.4	(c)	(S)	(S)	(c)	-	-	-	7.7	6.7	14	55
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56
128.9	113.9	13	127.5	71.0	80	r625.2	r823.4	r-24	65.4	43.8	49	188.1	162.2	16	57
9.0	6.3	43	-	-	-	86.8	302.8	(b)	0.1	0.1	(c)	0.5	0.4	(c)	58
5.6	4.4	29	13.5	11.6	16	1.7	1.8	-1	1.2	1.2	5	0.4	0.3	(c)	59
113.0	101.4	12	113.9	59.3	92	r536.6	r518.8	3	64.0	42.5	(b)	187.3	161.5	16	60
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61
1.2	1.9	-34	-	-	-	-	-	-	-	-	-	-	-	-	62

Table 2A.--EXPORTS OF MANUFACTURED

(See table 1 for estimates of total exports by State, including that portion not reported directly by establishments in which products were manufactured. The $5.3 billion in exports not reported in the survey would be accounted for chiefly by purchasers whose intention to export was not known to the materials and components produced in other industries and areas. For further information about the data, see the text)

(Million

	Geographic division and State	Total exports of manufactured products	Food and kindred products (20)	Tobacco manufactures (21)	Textile mill products (22)	Apparel and related products (23)	Lumber and wood products (24)	Furniture and fixtures (25)	Paper and allied products (26)	Printing and publishing (27)	Chemicals and allied products (28)
1	Total reported by manufacturing establishments	r11,003.7	700.6	308.1	32.1	(U)	(V)	-	318.1	94.5	1,354.4
2	New England	666.8	3.9	-	(T)	-	-	-	20.9	(T)	34.6
3	Maine	15.4	(S)	-	-	-	-	-	8.4	-	(S)
4	New Hampshire	21.6	-	-	-	-	-	-	(T)	-	-
5	Vermont	19.7	(S)	-	-	-	-	-	(S)	-	-
6	Massachusetts	324.5	2.8	-	(T)	-	-	-	7.1	(T)	16.2
7	Rhode Island	27.6	(S)	-	-	-	-	-	-	-	(T)
8	Connecticut	257.9	0.4	-	-	-	-	-	(T)	(S)	15.9
9	Middle Atlantic	r2,477.0	66.8	(T)	(S)	(T)	-	-	17.5	57.0	326.1
10	New York	1,010.9	44.4	-	-	(S)	-	-	4.5	47.2	90.5
11	New Jersey	578.7	15.7	(S)	(S)	-	-	-	5.4	3.1	135.6
12	Pennsylvania	r887.5	6.6	1.1	(S)	(T)	-	-	7.6	6.7	100.0
13	East North Central	3,623.5	153.4	(S)	(T)	-	(S)	-	9.0	28.5	183.3
14	Ohio	1,053.2	12.9	-	(T)	-	-	-	3.9	2.5	46.6
15	Indiana	333.7	10.8	-	-	-	-	-	(S)	(T)	11.8
16	Illinois	1,056.9	99.6	(S)	-	-	-	-	(T)	22.6	40.7
17	Michigan	836.4	14.5	-	-	-	-	-	2.2	-	81.5
18	Wisconsin	343.2	15.5	-	-	-	(S)	-	1.7	(T)	2.7
19	West North Central	459.3	100.2	(S)	(S)	(T)	-	-	(U)	1.2	30.9
20	Minnesota	105.9	9.8	-	(S)	(T)	-	-	(U)	(S)	(T)
21	Iowa	158.2	21.6	-	-	-	-	-	-	(S)	4.0
22	Missouri	99.4	21.9	(S)	-	-	-	-	(S)	0.5	19.0
23	North Dakota	-	-	-	-	-	-	-	-	-	-
24	South Dakota	(T)	(T)	-	-	-	-	-	-	-	-
25	Nebraska	(V)	(U)	-	-	-	-	-	-	-	(T)
26	Kansas	76.9	38.4	-	-	-	-	-	-	-	2.9
27	South Atlantic	r1,041.9	16.3	306.3	23.8	(T)	-	-	106.0	4.3	258.1
28	Delaware	(V)	(S)	-	-	-	-	-	-	-	7.6
29	Maryland	145.2	6.8	-	-	-	-	-	(S)	(S)	21.0
30	District of Columbia	(T)	-	-	-	-	-	-	-	(T)	-
31	Virginia	233.8	(T)	124.9	(V)	-	-	-	10.4	(S)	60.2
32	West Virginia	118.3	-	(S)	-	-	-	-	-	-	77.9
33	North Carolina	240.7	-	181.0	(U)	-	-	-	11.2	-	9.7
34	South Carolina	41.7	(S)	(S)	(S)	-	-	-	(U)	-	18.7
35	Georgia	r113.7	4.0	-	(T)	(T)	-	-	35.9	-	18.4
36	Florida	129.3	4.0	(S)	-	-	-	-	39.7	-	44.7
37	East South Central	370.8	30.9	0.4	4.2	(S)	(S)	-	36.0	(S)	140.6
38	Kentucky	121.2	8.2	(S)	-	-	-	-	(T)	-	44.2
39	Tennessee	114.8	15.4	(S)	(T)	-	-	-	7.6	(S)	58.6
40	Alabama	74.9	0.9	-	(T)	(S)	(S)	-	4.1	-	24.5
41	Mississippi	59.8	6.4	-	(T)	-	-	-	(V)	-	13.4
42	West South Central	1,006.3	189.9	-	(S)	-	-	-	14.8	-	316.0
43	Arkansas	44.2	31.7	-	(S)	-	-	-	(T)	-	(T)
44	Louisiana	221.1	33.1	-	-	-	-	-	8.7	-	72.6
45	Oklahoma	64.7	12.7	-	-	-	-	-	(S)	-	(S)
46	Texas	676.2	112.4	-	-	-	-	-	4.2	-	241.6
47	Mountain	136.0	5.6	-	-	-	-	-	(T)	-	9.8
48	Montana	(V)	-	-	-	-	-	-	-	-	-
49	Idaho	4.8	(S)	-	-	-	-	-	(T)	-	(T)
50	Wyoming	(S)	-	-	-	-	-	-	-	-	-
51	Colorado	41.7	(T)	-	-	-	-	-	-	-	(U)
52	New Mexico	12.2	(S)	-	-	-	-	-	-	-	(T)
53	Arizona	27.9	(S)	-	-	-	-	-	-	-	-
54	Utah	31.9	0.7	-	-	-	-	-	-	-	-
55	Nevada	(U)	-	-	-	-	-	-	-	-	(S)
56	Pacific	r1,221.8	133.6	-	-	(S)	(U)	-	105.6	(T)	54.8
57	Washington	219.5	16.2	-	-	(S)	4.0	-	71.2	-	(U)
58	Oregon	44.1	7.2	-	-	-	(U)	-	6.1	-	(S)
59	California	r921.9	102.6	-	-	-	(S)	-	2.0	(T)	48.7
60	Alaska	(W)	-	-	-	-	-	-	(W)	-	-
61	Hawaii	(V)	7.6	-	-	-	-	-	(S)	-	-

See footnotes at end of table 1.

PRODUCTS REPORTED BY MANUFACTURERS: 1963

The $11.0 billion in exports reported in this survey were made by establishments with 100 employees or more and exporting $25,000 or more in 1963. manufacturer. The entire cost of the exported products is counted here in the exporting industry or area. Much of the export value consists of

dollars)

Petroleum and coal products (29)	Rubber and plastics products, n.e.c. (30)	Leather and leather products (31)	Stone, clay, and glass products (32)	Primary metal industries (33)	Fabricated metal products (34)	Machinery, except electrical (35)	Electrical machinery (36)	Transportation equipment (37)	Instruments and related products (38)	Miscellaneous manufacturing and ordnance and accessories (39 and 19)	
428.5	164.8	17.9	153.1	700.0	389.7	r2,647.5	990.8	r2,097.5	416.3	174.0	1
0.4	20.6	10.1	11.4	16.1	31.5	196.2	116.6	117.3	54.1	29.1	2
-	(S)	1.0	-	(S)	(S)	(T)	(S)	(T)	(S)	(S)	3
-	-	(T)	(S)	(S)	(S)	13.4	3.8	-	(S)	-	4
-	(S)	-	(S)	(S)	-	13.0	2.0	-	(S)	(T)	5
(S)	15.2	(U)	(U)	4.7	16.3	98.3	88.1	10.2	37.7	9.5	6
(S)	1.4	-	(S)	2.0	0.7	(V)	(T)	(S)	(T)	3.5	7
-	3.3	(S)	2.5	8.8	14.4	57.6	19.2	(Y)	13.8	12.8	8
83.4	27.1	2.0	45.8	221.2	91.8	593.7	304.8	r374.4	211.3	50.2	9
5.5	7.2	0.9	20.0	33.5	16.1	269.4	126.9	153.2	155.4	35.8	10
48.1	9.9	0.7	10.4	41.2	17.5	61.8	70.7	129.7	24.2	4.5	11
29.8	10.0	(S)	15.4	146.5	58.2	262.5	107.3	r91.5	31.7	9.9	12
10.2	73.2	4.5	51.6	158.6	149.7	1,342.0	302.4	1,019.3	80.5	55.8	13
1.8	50.8	(T)	23.0	84.8	57.1	309.1	105.2	332.2	15.5	5.4	14
(T)	6.1	-	2.7	23.9	14.6	89.7	47.2	107.0	14.7	(T)	15
4.2	9.3	0.5	8.2	13.9	36.3	586.4	95.8	75.1	35.8	27.3	16
(T)	5.6	(T)	11.2	29.7	28.0	172.7	19.4	452.4	9.5	5.6	17
-	1.4	0.8	6.5	6.2	13.7	184.1	34.8	52.5	4.8	(V)	18
1.4	6.9	-	(V)	4.0	(V)	164.3	41.9	35.8	34.0	5.7	19
(S)	0.9	-	(S)	(S)	1.6	46.6	6.2	(S)	(W)	0.5	20
-	(T)	-	-	(T)	3.6	90.0	27.2	0.7	(T)	4.5	21
(S)	(S)	-	9.9	(T)	5.0	19.5	(U)	10.4	2.6	0.4	22
-	-	-	-	-	-	-	-	-	-	-	23
-	-	-	-	-	-	(T)	-	-	-	-	24
-	(S)	-	-	(S)	1.5	(T)	-	0.6	(T)	0.3	25
1.0	(T)	-	(T)	-	(T)	4.0	(S)	(V)	(S)	-	26
(T)	6.5	1.1	11.8	68.5	28.1	98.5	65.1	r35.8	2.8	4.5	27
-	0.9	(S)	-	(S)	2.7	0.6	(S)	(S)	(S)	-	28
(T)	3.5	-	4.9	44.3	3.6	19.9	29.4	8.5	(S)	(S)	29
-	-	-	-	-	-	-	-	-	-	-	30
-	1.4	(S)	(S)	(S)	3.5	6.5	(V)	(S)	(S)	(S)	31
(S)	-	(S)	3.7	20.8	1.9	(U)	4.3	(S)	-	(S)	32
-	(S)	-	(S)	(S)	(U)	10.1	10.6	(S)	(S)	(S)	33
(S)	(S)	-	(T)	-	(T)	6.5	1.7	-	(S)	(T)	34
-	-	(S)	0.3	(T)	6.1	14.4	5.3	r21.0	(S)	(S)	35
-	-	-	(S)	-	3.0	(W)	1.4	3.8	(S)	-	36
-	11.8	(S)	7.1	29.7	18.7	47.7	24.3	15.1	(T)	2.0	37
-	(S)	(S)	4.7	(T)	3.8	31.4	14.9	(U)	(S)	(S)	38
-	(U)	-	1.4	(T)	3.2	6.4	5.8	3.1	(T)	1.1	39
-	5.6	-	(S)	23.5	3.9	7.2	2.3	(S)	-	(S)	40
-	-	-	(S)	-	7.8	2.8	1.3	3.3	-	(S)	41
253.7	(U)	-	4.5	65.4	27.8	82.7	24.6	15.1	3.6	(T)	42
(T)	0.6	-	-	(T)	(S)	3.7	(S)	(S)	(S)	0.6	43
70.7	-	-	1.0	(W)	(T)	1.8	-	(S)	-	-	44
(V)	(U)	-	0.8	(T)	7.7	15.1	(S)	(T)	(S)	(S)	45
169.0	(T)	-	2.7	30.1	15.5	62.1	23.3	10.2	3.5	(S)	46
(S)	(T)	-	(S)	57.7	(T)	30.9	5.9	6.7	(T)	(U)	47
-	-	-	-	(V)	-	-	-	-	-	-	48
-	-	-	-	-	-	-	-	-	-	(S)	49
(S)	-	-	-	-	-	-	-	-	-	-	50
(S)	(T)	-	-	(U)	(T)	15.4	3.6	(S)	-	-	51
-	-	-	-	(V)	-	-	-	-	(S)	-	52
-	-	-	-	(U)	(S)	(T)	(T)	(U)	(T)	(U)	53
-	(S)	-	(S)	(V)	-	(V)	(S)	-	-	-	54
-	-	-	(S)	(T)	-	-	-	-	-	-	55
76.1	6.8	(S)	9.2	78.8	27.5	r91.5	105.0	477.6	25.8	18.3	56
(S)	-	-	(S)	52.0	0.3	6.2	-	(X)	-	-	57
-	-	-	(S)	5.3	(S)	4.0	(V)	(T)	(T)	-	58
74.9	6.8	(S)	7.2	21.4	26.7	r80.4	(X)	413.9	(V)	18.3	59
-	-	-	-	-	-	-	-	-	-	-	60
(S)	-	-	(S)	-	(S)	(S)	-	-	-	-	61

Table 2B.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS FOR THE UNITED STATES BY INDUSTRY, 1963; WITH PERCENT CHANGE, 1960 TO 1963

(The $11.0 billion in exports reported in this survey were made by establishments with 100 employees or more and exporting $25,000 or more in 1963. The $5.3 billion in exports not reported in the survey would be accounted for chiefly by producers whose intention to export was not known to the manufacturer. The entire cost of the exported products is counted here in the exporting industry or area. Much of the export value consists of materials and components produced in other industries and areas. For further information about the data, see the text)

Code	Industry	1963 total (million dollars)	Percent change 1963/1960
	All industries, total	11,003.7	12
20	Food and kindred products	700.6	13
201	Meat products	41.7	-4
2011	Meat slaughtering plants	33.8	-5
2013	Meat processing plants	(D)	(D)
2015	Poultry dressing plants	(T)	(D)
202	Dairies	57.6	36
2021	Creamery butter	(T)	(D)
2022	Natural and process cheese	(S)	(c)
2023	Condensed and evaporated milk	55.2	35
2026	Fluid milk	(S)	(c)
203	Canned and frozen foods	49.1	-27
2031	Canned and cured seafoods	(S)	(c)
2032	Canned specialties	6.9	-2
2033	Canned fruits and vegetables	31.8	-35
2034	Dehydrated foods products	(U)	(D)
2035	Pickles, sauces, salad dressings	(T)	(D)
2036	Fresh or frozen packaged fish	(S)	(c)
2037	Frozen fruits and vegetables	(S)	(c)
204	Grain mills	338.8	30
2041	Flour mills	174.1	22
2042	Prepared animal feeds	13.6	11
2043	Cereal preparations	7.4	7
2044	Rice milling	127.5	(b)
2045	Blended and prepared flour	1.1	(c)
2046	Wet corn milling	15.1	15
205	Bakery products	(S)	(c)
2051	Bread and related products	(S)	(c)
2052	Biscuit, crackers and cookies	(S)	(c)
206	Sugar	(T)	(b)
2062	Cane sugar refining	(S)	(c)
2063	Beet sugar	(T)	(D)
207	Candy and related products	16.0	-1
2071	Confectionery products	4.7	9
2072	Chocolate and cocoa products	2.6	8
2073	Chewing gum	8.7	-8
208	Beverages	22.1	1
2082	Malt liquors	(T)	(D)
2087	Flavorings	(V)	(D)
209	Miscellaneous foods and kindred products	173.6	5
2091	Cottonseed oil mills	27.8	43
2092	Soybean oil mills	57.6	8
2093	Vegetable oil mills, n.e.c.	(T)	(D)
2094	Animal and marine fats and oils	37.6	-11
2095	Roasted coffee	(S)	(c)
2096	Shortening and cooking oils	21.7	-13
2098	Macaroni and spaghetti	(S)	(c)
2099	Food preparations, n.e.c.	27.2	27
21	Tobacco manufactures	308.1	17
2111	Cigarettes	120.5	11
2121	Cigars	1.2	-44
2131	Chewing and smoking tobacco	2.4	24
2141	Tobacco stemming and redrying	184.1	23
22	Textile mill products	32.1	-20
2211	Weaving mills, cotton	14.8	-20
2221	Weaving mills, synthetics	(T)	(D)
2231	Weaving, finishing mills, wool	(T)	(D)
2241	Narrow fabric mills	(S)	(c)
225	Knitting mills	(S)	(c)
2252	Hosiery, n.e.c.	(S)	(c)
2256	Knit fabric mills	(S)	(c)
226	Textile finishing, except wool	(U)	(D)
2261	Finishing plants, cotton	(S)	(c)
2262	Finishing plants, synthetic	(T)	(D)
2269	Finishing plants, n.e.c.	(S)	(c)
22	Textile mill products--Continued		
227	Floor covering mills	(S)	(c)
2271	Woven carpets and rugs	(S)	(c)
2272	Tufted carpets and rugs	(S)	(c)
228	Yarn and thread mills	(T)	(D)
2281	Yarn mills, except wool	(S)	(c)
2282	Throwing and winding mills	(T)	(D)
229	Miscellaneous textile goods	5.0	41
2295	Coated fabric, not rubberized	3.2	30
2296	Tire cord and fabric	(T)	(D)
2299	Textile goods, n.e.c.	(S)	(c)
23	Apparel and related products	(U)	(D)
232	Men's and boys' furnishings	(U)	(D)
2321	Men's dress shirts and nightwear	(U)	(D)
2322	Men's and boys' underwear	(S)	(c)
2323	Men's and boys' neckwear	(S)	(c)
2341	Women's and children's underwear	(S)	(c)
2389	Apparel, n.e.c.	(S)	(c)
24	Lumber and wood products	(V)	(D)
2411	Logging camps and contractors	(T)	(c)
2421	Sawmills and planing mills	(U)	(D)
2432	Veneer and plywood plants	(S)	(c)
249	Miscellaneous wood products	(S)	(c)
2491	Wood preserving	(S)	(c)
2499	Wood products, n.e.c.	(S)	(c)
26	Paper and allied products	318.1	17
2611	Pulp mills	130.1	21
2621	Paper mills, except building	75.2	1
2631	Paperboard mills	88.0	28
2661	Building paper and board mills	5.9	48
264	Paper and paperboard products	16.3	8
2641	Paper coating and glazing	12.8	7
2643	Bags, except textile bags	(T)	(c)
2645	Die cut paper and board	(S)	(c)
2649	Converted paper products, n.e.c.	(T)	(D)
265	Paperboard containers and boxes	2.5	-3
2651	Folding paperboard boxes	(S)	(c)
2653	Corrugated shipping containers	(S)	(c)
2654	Sanitary food containers	(T)	(D)
27	Printing and publishing	94.5	30
2721	Periodicals	23.4	-18
273	Books	66.9	(b)
2731	Books, publishing and printing	64.9	(b)
2732	Book printing	2.0	29
2741	Miscellaneous publishing	(S)	(c)
275	Commercial printing	2.2	-5
2751	Printing, except lithographic	(T)	(D)
2752	Printing, lithographic	(S)	(c)
2793	Photoengraving	(T)	(D)
28	Chemicals and allied products	1,354.4	3
281	Basic chemicals	513.4	11
2812	Alkalies and chlorine	22.6	2
2814	Cyclic (coal tar) crudes	(T)	(D)
2815	Intermediate coal tar products	73.3	-2
2816	Inorganic pigments	(U)	(D)
2818	Organic chemicals, n.e.c.	310.6	6
2819	Inorganic chemicals, n.e.c.	99.1	(b)

See footnotes at end of table 1.

Table 2B.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS FOR THE UNITED STATES BY INDUSTRY, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Industry	1963 total (million dollars)	Percent change 1963/1960
28	Chemicals and allied products--Con.		
282	Fibers, plastics, rubbers	419.9	-3
2821	Plastics materials and resins	204.0	10
2822	Synthetic rubber	121.2	-22
2823	Cellulosic man-made fibers	23.2	34
2824	Organic fibers, noncellulosic	71.6	(a)
283	Drugs	177.9	3
2831	Biological products	3.9	(b)
2833	Medicinals and botanicals	12.5	(b)
2834	Pharmaceutical preparations	161.5	-1
284	Cleaning and toilet goods	53.4	-6
2841	Soap and other detergents	21.3	-31
2842	Polishes and sanitation goods	(T)	(D)
2843	Surface active agents	(U)	(D)
2844	Toilet preparations	22.0	27
2851	Paints and allied products	16.0	(a)
2861	Gum and wood chemicals	25.7	-23
287	Agricultural chemicals	59.2	11
2871	Fertilizers	39.1	17
2872	Fertilizers, mixing only		
2879	Agricultural chemicals, n.e.c	20.1	1
289	Miscellaneous chemical products	88.9	-2
2891	Glue and gelatin	7.3	-2
2892	Explosives	8.8	-13
2893	Printing ink	4.5	47
2895	Carbon black	25.1	-24
2899	Chemical preparations, n.e.c	43.2	18
29	Petroleum and coal products	428.5	10
2911	Petroleum refining	400.2	10
295	Paving and roofing materials	3.9	21
2951	Paving mixtures and blocks	(S)	(c)
2952	Asphalt felts and coatings	(T)	(D)
299	Petroleum and coal products, n.e.c	24.3	9
2992	Lubricating oils and greases	(V)	(D)
2999	Petroleum and coal products, n.e.c	(V)	(D)
30	Rubber and plastics products, n.e.c	164.8	2
3011	Tires and inner tubes	72.7	-19
3021	Rubber footwear	(T)	(D)
3031	Reclaimed rubber	(T)	(D)
3069	Rubber products, n.e.c	59.9	20
3079	Plastics products, n.e.c	28.1	43
31	Leather and leather products	17.9	(b)
3111	Leather tanning and finishing	16.4	(b)
3121	Industrial leather belting	(T)	(c)
3131	Footwear cut stock	(S)	(c)
3141	Footwear, except rubber	(S)	(c)
3172	Small leather goods	(S)	(c)
32	Stone, clay, and glass products	153.1	30
3211	Flat glass	11.8	(b)
322	Pressed and blown glassware	41.2	14
3221	Glass containers	9.2	22
3229	Pressed and blown glass, n.e.c	32.0	11
3231	Products of purchased glass	5.8	(b)
3241	Cement, hydraulic	(T)	(c)
3255	Clay refractories	(U)	(D)
326	Pottery and related products	14.7	29
3261	Vitreous plumbing fixtures	7.5	(b)
3262	Vitreous china food utensils	(S)	(c)
3263	Earthenware food utensils	(S)	(c)
3264	Porcelain electrical supplies	6.0	(a)
3269	Pottery products, n.e.c	.7	(c)
327	Concrete and plaster products	(T)	(D)
3274	Lime	(S)	(c)
3275	Gypsum products	(T)	(D)
3281	Cut stone and stone products	.4	14
32	Stone, clay, and glass products--Con.		
329	Nonmetallic minerals products	69.5	33
3291	Abrasive products	25.9	41
3292	Asbestos products	7.6	7
3293	Gaskets and insulations	(U)	(D)
3295	Minerals, ground or treated	7.4	10
3296	Mineral wool	10.0	(b)
3297	Nonclay refractories	12.0	26
3299	Nonmetallic minerals, n.e.c	(S)	(c)
33	Primary metal industries	700.0	-17
331	Steel rolling and finishing	378.4	-21
3312	Blast furnaces and steel mills	333.0	-20
3313	Electrometallurgical products	5.9	(b)
3315	Steel wire drawing, etc	6.4	-3
3316	Cold finishing of steel shapes	21.6	-21
3317	Steel pipe and tube	11.6	-38
332	Iron and steel foundries	4.8	-4
3321	Gray iron foundries	(T)	(D)
3323	Steel foundries	(T)	(D)
333	Primary nonferrous metal	183.8	-25
3331	Primary copper	89.7	-7
3332	Primary lead	(U)	(D)
3333	Primary zinc	(U)	(D)
3334	Primary aluminum	66.0	-43
3339	Primary nonferrous metals, n.e.c	13.6	(b)
3341	Secondary nonferrous metals	9.7	-35
335	Nonferrous rolling and drawing	96.0	22
3351	Copper rolling and drawing	9.0	-10
3352	Aluminum rolling and drawing	39.4	32
3356	Rolling and drawing, n.e.c	26.2	42
3357	Nonferrous wire drawing, etc	21.4	6
336	Nonferrous foundries	7.0	23
3361	Aluminum castings	.8	(c)
3362	Brass, bronze, copper castings	3.5	-6
3369	Nonferrous castings, n.e.c	2.7	(b)
339	Primary metal industries, n.e.c	20.3	19
3391	Iron and steel forgings	17.1	25
3392	Nonferrous forgings	(T)	(D)
3399	Primary metal industries, n.e.c	(S)	(c)
34	Fabricated metal products	389.7	27
3411	Metal cans	14.7	-25
342	Cutlery, hand tools, hardware	76.5	20
3421	Cutlery	6.3	(b)
3423	Hand and edge tools	28.7	20
3425	Hand saws and saw blades	6.1	13
3429	Hardware, n.e.c	35.4	15
343	Plumbing and heating, except electric	24.9	10
3431	Plumbing fixtures	3.5	5
3432	Plumbing fittings, brass goods	4.4	31
3433	Heating equipment, except electric	17.0	7
344	Structural metal products	118.1	44
3441	Fabricated structural steel	24.7	(b)
3442	Metal doors, sash, and trim	4.8	14
3443	Boiler shop products	74.8	35
3444	Sheet metal work	6.6	6
3449	Miscellaneous metal work	7.2	-11
345	Screw machine products, bolts, etc	17.9	40
3451	Screw machine products	.3	(c)
3452	Bolts, nuts, rivets and washers	17.7	39
3461	Metal stampings	44.8	43
347	Metal services, n.e.c	.6	(c)
3471	Plating and polishing	(S)	(c)
3479	Metal coating, engraving, etc	(S)	(c)
3481	Fabricated wire products, n.e.c	7.5	(b)
349	Fabricated metal products, n.e.c	84.7	23
3491	Metal barrels, drums, and pails	2.6	(b)
3492	Safes and vaults	(T)	(D)
3493	Steel springs	1.3	(b)
3494	Valves and pipe fittings	54.6	26

See footnotes at end of table 1.

Table 2B.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS FOR THE UNITED STATES BY INDUSTRY, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Industry	1963 total (million dollars)	Percent change 1963/1960
34	Fabricated metal products--Con.		
349	Fabricated metal products, n.e.c.--Con.		
3496	Collapsible tubes	(T)	(c)
3497	Metal foil and leaf	3.6	(b)
3498	Fabricated pipe and fittings	13.0	(b)
3499	Fabricated metal products, n.e.c	6.1	(b)
35	Machinery, except electrical	2,647.6	20
351	Engines and turbines	291.6	(b)
3511	Steam engines and turbines	103.5	(b)
3519	Internal combustion engines	188.0	27
3522	Farm machinery and equipment	205.0	38
353	Construction and like equipment	806.0	6
3531	Construction machinery	608.3	12
3532	Mining machinery and equipment	53.2	-14
3533	Oil field machinery	75.4	-21
3534	Elevators and moving stairways	4.8	-18
3535	Conveyors	17.5	25
3536	Hoists, cranes, and monorails	20.5	21
3537	Industrial trucks and tractors	26.4	15
354	Metalworking machinery	302.9	6
3541	Metal-cutting machine tools	111.0	-6
3542	Metal-forming machine tools	47.6	-4
3544	Special dies and tools	5.8	(b)
3545	Machine tool accessories	25.0	12
3548	Metalworking machinery, n.e.c	113.6	23
355	Special industry machinery	299.6	14
3551	Food products machinery	48.8	23
3552	Textile machinery	71.7	-7
3553	Woodworking machinery	13.5	18
3554	Paper industries machinery	54.1	26
3555	Printing trades machinery	38.1	36
3559	Special industry machinery, n.e.c	73.5	14
356	General industrial machinery	263.8	24
3561	Pumps and compressors	120.2	10
3562	Ball and roller bearings	54.4	25
3564	Blowers and fans	(V)	(D)
3565	Industrial patterns	(S)	(c)
3566	Power transmission equipment	29.7	45
3567	Industrial furnaces and ovens	15.0	(b)
3569	General industry machines, n.e.c	33.6	(b)
357	Office machines, n.e.c	309.5	(b)
3571	Computing and related machines	255.6	(b)
3572	Typewriters	33.7	25
3576	Scales and balances	4.6	40
3579	Office machines, n.e.c	15.6	25
358	Service industry machines	135.3	14
3581	Automatic vending machines	11.2	-17
3582	Commercial laundry equipment	6.2	17
3585	Refrigeration machinery	92.8	23
3586	Measuring and dispensing pumps	15.1	3
3589	Service industry machines, n.e.c	10.0	5
3599	Miscellaneous machinery	33.9	41
36	Electrical machinery	990.8	35
361	Electric distribution products	130.0	45
3611	Electric measuring instruments	50.8	(b)
3612	Transformers	25.3	(b)
3613	Switchgear and switchboards	53.9	36
362	Electric industrial apparatus	166.3	31
3621	Motors and generators	95.1	38
3622	Industrial controls	22.5	(b)
3623	Welding apparatus	28.1	19
3624	Carbon and graphite products	12.8	-1
3629	Electric industrial goods, n.e.c	7.8	8
363	Household appliances	140.1	6
3631	Household cooking equipment	8.1	1
3632	Household refrigerators	56.4	-15
3633	Household laundry equipment	25.3	21
3634	Electric housewares and fans	19.2	21
3635	Household vacuum cleaners	4.7	30
3636	Sewing machines	23.2	(b)
3639	Household appliances, n.e.c	3.3	48
36	Electrical machinery--Con.		
364	Lighting and wiring devices	70.0	26
3641	Electric lamps	20.1	10
3642	Lighting fixtures	12.3	(b)
3643	Current carrying devices	31.0	40
3644	Noncurrent carrying devices	6.6	-15
365	Radio and TV receiving equipment	62.2	27
3651	Radio and TV receiving sets	58.8	28
3652	Phonograph records	3.3	8
366	Communication equipment	240.6	(b)
3661	Telephone; telegraph apparatus	15.2	-2
3662	Radio, TV communication equipment	225.4	(b)
367	Electronic components	128.3	42
3671	Electron tubes, receiving type	14.4	11
3672	Cathode ray picture tubes	(V)	(D)
3673	Electron tubes, transmitting	18.6	(b)
3674	Semiconductors	(S)	(c)
3679	Electronic components, n.e.c	81.7	(b)
369	Electrical products, n.e.c	53.3	13
3691	Storage batteries	4.7	10
3692	Primary batteries, dry and wet	3.8	(b)
3693	X-ray apparatus and tubes	10.1	46
3694	Engine electrical equipment	32.7	22
3699	Electrical products, n.e.c	2.1	25
37	Transportation equipment	2,097.1	1
371	Motor vehicles and equipment	1,107.8	12
3713	Truck and bus bodies	11.4	-32
3715	Truck trailers	31.1	-7
3717	Motor vehicles and parts	1,065.5	14
372	Aircraft and parts	828.1	-10
3721	Aircraft	554.5	-21
3722	Aircraft engines and parts	183.6	34
3723	Aircraft propellers and parts	90.0	19
3729	Aircraft equipment, n.e.c		
373	Ship and boat building	7.3	-30
3731	Ship building and repairing	3.8	-28
3732	Boat building and repairing	3.5	-31
374	Railroad equipment	150.6	-4
3741	Locomotives and parts	128.0	-7
3742	Railroad and street cars	22.6	21
3751	Motorcycles, bicycles, and parts	2.3	30
379	Transportation equipment, n.e.c	1.4	-2
3791	Trailer coaches	.6	(c)
3799	Transportation equipment, n.e.c	.8	(c)
38	Instruments and related products	416.3	44
3811	Scientific instruments	66.4	(b)
382	Mechanical measuring devices	113.8	35
3821	Mechanical measuring devices	82.6	35
3822	Automatic temperature controls	31.2	36
3831	Optical instruments and lenses	13.5	(b)
384	Medical instruments and supplies	42.1	25
3841	Surgical and medical instruments	12.2	(b)
3842	Surgical appliances and supplies	22.6	25
3843	Dental equipment and supplies	7.4	-3
3851	Ophthalmic goods	7.3	29
3861	Photographic equipment	163.9	31
387	Watches, clocks, and watchcases	9.2	(b)
3871	Watches and clocks	9.2	(b)
3872	Watchcases		
39, 19	Miscellaneous manufacturing and ordnance and accessories	174.0	39
391	Jewelry and silverware	28.1	(b)
3911	Jewelry, precious metal	21.9	(b)
3912	Jewelers' findings and materials	1.6	16
3914	Silverware and plated ware	4.6	36

See footnotes at end of table 1.

Table 2B.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS FOR THE UNITED STATES BY INDUSTRY, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Industry	1963 total (million dollars)	Percent change 1963/1960
39 19	Miscellaneous manufacturing and ordnance and accessories--Con.		
3931	Musical instruments and parts	8.3	39
394	Toys and sporting goods	19.4	-15
3941	Games and toys	5.4	31
3942	Dolls	1.2	(c)
3943	Children's vehicles	.5	(c)
3949	Sporting and athletic goods	12.3	-30
395	Pens, pencils, and office supplies	32.1	10
3951	Pens and mechanical pencils	23.6	4
3952	Lead pencils and art goods	2.8	-5
3953	Marking devices	.8	(c)
3955	Carbon paper and inked ribbons	4.9	(b)
396	Costume jewelry and notions	8.0	10
3961	Costume jewelry	3.9	6
3963	Buttons	.2	(c)
3964	Needles, pins, and fasteners	3.9	15
39 19	Miscellaneous manufacturing and ordnance and accessories--Con.		
398 399 190	Miscellaneous manufactures and ordnance and accessories	78.1	(b)
3981	Brooms and brushes	1.6	32
3982	Hard surface floor coverings	5.0	5
3983	Matches	.5	(c)
3984	Candles	.3	(c)
3988	Morticians' goods	(S)	(c)
3992	Furs, dressed and dyed	(T)	(D)
3993	Signs and advertising displays	.3	(c)
3995	Umbrellas, parasols and canes	(S)	(a)
3999	Miscellaneous products, n.e.c	17.6	(b)
19--	Ordnance and accessories	50.5	(b)

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963

(The $11.0 billion in exports reported in this survey were made by establishments with 100 employees or more and exporting $25,000 or more in 1963. The $5.3 billion in exports not reported in the survey would be accounted for chiefly by purchasers whose intention to export was not known to the manufacturer. The entire cost of the exported products is counted here in the exporting industry or area. Much of the export value consists of materials and components produced in other industries and areas. For further information about the data, see the text)

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	New England, total	666.8	19
20	Food and kindred products	3.9	39
204	Grain mills	(S)	(c)
207	Candy and related products	(S)	(c)
209	Miscellaneous foods and kindred products	2.5	(b)
26	Paper and allied products	20.9	15
261	Pulp mills	(S)	(c)
262	Paper mills, except building	18.7	19
263	Paperboard mills	.6	(c)
266	Building paper and board mills	(T)	(c)
28	Chemicals and allied products	34.6	-14
281	Basic chemicals	(U)	(D)
282	Fibers, plastics, rubbers	16.4	-22
283	Drugs	(T)	(D)
284	Cleaning and toilet goods	3.1	-18
285	Paints and allied products	(S)	(c)
287	Agricultural chemicals	(S)	(c)
289	Miscellaneous chemical products	2.6	22
29	Petroleum and coal products	(S)	(c)
291	Petroleum refining	(S)	(c)
295	Paving and roofing materials	(S)	(c)
30	Rubber and plastics products, n.e.c	20.6	10
301	Tires and inner tubes	(T)	(D)
302	Rubber footwear	(T)	(c)
306	Rubber products, n.e.c	10.7	13
307	Plastics products, n.e.c	4.0	(b)
32	Stone, clay, and glass products	11.4	10
322	Pressed and blown glassware	(S)	(c)
323	Products of purchased glass	(S)	(c)
326	Pottery and related products	(S)	(c)
328	Cut stone and stone products	(S)	(c)
329	Nonmetallic mineral products	10.1	7
33	Primary metal industries:	16.1	-5
331	Steel rolling and finishing	5.6	28
335	Nonferrous rolling and drawing	9.0	-24
336	Nonferrous foundries	(S)	(c)
339	Primary metal industries, n.e.c	(T)	(c)
	New England--Con.		
34	Fabricated metal products	31.5	25
341	Metal cans	(S)	(c)
342	Cutlery, hand tools, hardware	18.7	24
343	Plumbing and heating, except electric	(S)	(c)
344	Structural metal products	(S)	(c)
345	Screw machine products, bolts, etc	1.3	9
346	Metal stampings	1.1	(c)
348	Fabricated wire products, n.e.c	.3	(c)
349	Fabricated metal products, n.e.c	9.6	36
35	Machinery, except electrical	196.2	9
351	Engines and turbines	(W)	(D)
353	Construction and like equipment	(T)	(D)
354	Metalworking machinery	49.1	-1
355	Special industry machinery	68.8	-3
356	General industrial machinery	19.3	9
357	Office machines, n.e.c	21.9	(b)
358	Service industry machines	4.8	-36
359	Miscellaneous machinery	2.5	(b)
36	Electrical machinery	116.6	103
361	Electric distribution products	21.0	46
362	Electric industrial apparatus	3.2	29
363	Household appliances	9.7	21
364	Lighting and wiring devices	3.8	34
365	Radio and TV receiving equipment	(T)	(D)
366	Communication equipment	(X)	(D)
367	Electronic components	18.2	(b)
369	Electrical products, n.e.c	2.5	44
37	Transportation equipment	117.3	7
371	Motor vehicles and equipment	6.8	(b)
372	Aircraft and parts	(Y)	(D)
373	Ship and boat building	(T)	(D)
38	Instruments and related products	54.1	31
381	Scientific instruments	(T)	(c)
382	Mechanical measuring devices	27.7	9
383	Optical instruments and lenses	(T)	(D)
384	Medical instruments and supplies	3.5	38
385	Ophthalmic goods	(T)	(D)
386	Photographic equipment	(U)	(D)
387	Watches, clocks, and watchcases	4.3	(b)

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	New England--Con.		
39 } 19 }	Miscellaneous manufacturing and ordnance and accessories	29.1	8
391	Jewelry and silverware	3.4	12
394	Toys and sporting goods	1.0	(b)
395	Pens, pencils, and office supplies	1.4	-10
396	Costume jewelry and notions	5.6	14
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	17.7	22
	Maine, total	15.4	-1
20	Food and kindred products	(S)	(c)
26	Paper and allied products	8.4	10
262	Paper mills, except building	8.4	9
28	Chemicals and allied products	(S)	(c)
30	Rubber and plastics products, n.e.c	(S)	(c)
33	Primary metal industries	(S)	(c)
34	Fabricated metal products	(S)	(c)
35	Machinery, except electrical	(T)	(D)
353	Construction and like equipment	(S)	(c)
355	Special industry machinery	(T)	(D)
356	General industrial machinery	(S)	(c)
359	Miscellaneous machinery	(S)	(c)
36	Electrical machinery	(S)	(c)
364	Lighting and wiring devices	(S)	(c)
367	Electronic components	(S)	(c)
37	Transportation equipment	(T)	(D)
372	Aircraft and parts	(T)	(D)
373	Ship and boat building	(S)	(c)
38	Instruments and related products	(S)	(c)
39 } 19 }	Miscellaneous manufacturing and ordnance and accessories	(S)	(C)
	New Hampshire, total	21.6	-29
26	Paper and allied products	(T)	(D)
261	Pulp mills	(S)	(c)
262	Paper mills, except building	(T)	(D)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	(S)	(c)
331	Steel rolling and finishing	(S)	(c)
335	Nonferrous rolling and drawing	(S)	(c)
336	Nonferrous foundries	(S)	(c)
34	Fabricated metal products	(S)	(c)
35	Machinery, except electrical	13.4	-26
353	Construction and like equipment	(T)	(D)
354	Metalworking machinery	(S)	(c)
355	Special industry machinery	(U)	-29
356	General industrial machinery	(S)	(c)
357	Office machines, n.e.c	(S)	(c)
36	Electrical machinery	3.8	(b)
361	Electric distribution products	(T)	(D)
362	Electric industrial apparatus	(S)	(c)
363	Household appliances	(S)	(c)
364	Lighting and wiring devices	(S)	(c)
366	Communication equipment	(S)	(c)
367	Electronic components	(T)	(c)
38	Instruments and related products	(S)	(c)
	Vermont, total	17.7	41
20	Food and kindred products	(S)	(c)
26	Paper and allied products	(S)	(c)
30	Rubber and plastics products, n.e.c	(S)	(c)
306	Rubber products, n.e.c	(S)	(c)
307	Plastics products, n.e.c	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	(S)	(c)
	New England--Con.		
	Vermont--Con.		
35	Machinery, except electrical	13.0	17
36	Electrical machinery	2.0	23
361	Electric distribution products	(T)	(c)
364	Lighting and wiring devices	(S)	(c)
367	Electronic components	(S)	(c)
369	Electrical products, n.e.c	(S)	(c)
38	Instruments and related products	(S)	(c)
39 } 19 }	Miscellaneous manufacturing and ordnance and accessories	(T)	(c)
	Massachusetts, total	324.5	37
20	Food and kindred products	2.8	33
207	Candy and related products	(S)	(c)
209	Miscellaneous foods and kindred products	(T)	(c)
26	Paper and allied products	7.1	17
262	Paper mills, except building	6.5	25
263	Paperboard mills	(S)	(c)
266	Building paper and board mills	(S)	(c)
28	Chemicals and allied products	16.2	-26
281	Basic chemicals	(T)	(D)
282	Fibers, plastics, rubbers	10.3	-35
284	Cleaning and toilet goods	(T)	(D)
285	Paints and allied products	(S)	(c)
287	Agricultural chemicals	(S)	(c)
289	Miscellaneous chemical products	(T)	(D)
29	Petroleum and coal products	(S)	(c)
30	Rubber and plastics products, n.e.c	15.2	8
301	Tires and inner tubes	(T)	(D)
302	Rubber footwear	(T)	(c)
306	Rubber products, n.e.c	7.5	15
307	Plastics products, n.e.c	3.3	(b)
32	Stone, clay, and glass products	(U)	(D)
33	Primary metal industries	4.7	45
331	Steel rolling and finishing	2.0	14
335	Nonferrous rolling and drawing	(T)	(c)
339	Primary metal industries, n.e.c	(T)	(c)
34	Fabricated metal products	16.3	36
342	Cutlery, hand tools, hardware	9.5	38
344	Structural metal products	(S)	(c)
345	Screw machine products, bolts, etc	(S)	(c)
346	Metal stampings	(S)	(c)
348	Fabricated wire products, n.e.c	(S)	(c)
349	Fabricated metal products, n.e.c	5.8	24
35	Machinery, except electrical	98.3	14
351	Engines and turbines	(W)	(D)
353	Construction and like equipment	(S)	(c)
354	Metalworking machinery	20.8	-7
355	Special industry machinery	31.8	-7
356	General industrial machinery	4.9	3
357	Office machines, n.e.c	(U)	(c)
358	Service industry machines	(T)	(D)
359	Miscellaneous machinery	(T)	(c)
36	Electrical machinery	88.1	(b)
361	Electric distribution products	16.7	48
362	Electric industrial apparatus	(T)	(c)
363	Household appliances	(T)	(D)
364	Lighting and wiring devices	3.9	(b)
365	Radio and TV receiving equipment	(S)	(c)
366	Communication equipment	(W)	(D)
367	Electronic components	12.2	(b)
369	Electrical products, n.e.c	(T)	(c)
37	Transportation equipment	10.2	(b)
371	Motor vehicles and equipment	(T)	(c)
372	Aircraft and parts	(U)	(D)
373	Ship and boat building	(S)	(c)
38	Instruments and related products	37.7	37
381	Scientific instruments	2.7	(c)
382	Mechanical measuring devices	20.9	16
383	Optical instruments and lenses	(T)	(c)
385	Ophthalmic goods	(T)	(D)

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	New England--Con.		
	Massachusetts--Con.		
38	Instruments and related products--Con.		
386	Photographic equipment	(U)	(D)
387	Watches, clocks, and watchcases	(T)	(D)
39} 19}	Miscellaneous manufacturing and ordnance and accessories	9.5	2
391	Jewelry and silverware	1.6	20
394	Toys and sporting goods	(S)	(c)
395	Pens, pencils, and office supplies	(S)	(c)
396	Costume jewelry and notions	2.0	(b)
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	5.1	20
	Rhode Island, total	27.6	8
20	Food and kindred products	(S)	(c)
28	Chemicals and allied products	(T)	(c)
281	Basic chemicals	(S)	(c)
282	Fibers, plastics, rubbers	(T)	(c)
29	Petroleum and coal products	(S)	(C)
30	Rubber and plastics products, n.e.c.	1.4	5
306	Rubber products, n.e.c	(T)	(D)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	2.0	-23
331	Steel rolling and finishing	(T)	(D)
335	Nonferrous rolling and drawing	(S)	(c)
34	Fabricated metal products	.7	-18
342	Cutlery, hand tools, hardware	(S)	(c)
345	Screw machine products, bolts, etc	(S)	(c)
349	Fabricated metal products, n.e.c	(S)	(c)
35	Machinery, except electrical	(V)	3
354	Metalworking machinery	(T)	(D)
355	Special industry machinery	9.9	20
356	General industrial machinery	(S)	(c)
358	Service industry machines	(S)	(c)
359	Miscellaneous machinery	(S)	(c)
36	Electrical machinery	(T)	(b)
361	Electric distribution products	(S)	(c)
363	Household appliances	(S)	(c)
364	Lighting and wiring devices	(S)	(c)
366	Communication equipment	(S)	(c)
367	Electronic components	(S)	(c)
369	Electrical products, n.e.c	(S)	(c)
37	Transportation equipment	(S)	(c)
38	Instruments and related products	(T)	(D)
382	Mechanical measuring devices	(T)	(D)
385	Ophthalmic goods	(S)	(c)
387	Watches, clocks, and watchcases	(S)	(c)
39} 19}	Miscellaneous manufacturing and ordnance and accessories	3.5	-6
391	Jewelry and silverware	(S)	(c)
394	Toys and sporting goods	(S)	(c)
396	Costume jewelry and notions	2.3	-8
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	(S)	(c)
	Connecticut, total	257.9	9
20	Food and kindred products	.4	37
26	Paper and allied products	(T)	(D)
262	Paper mills, except building	(T)	(D)
263	Paperboard mills	(S)	(c)
266	Building paper and board mills	(S)	(c)
28	Chemicals and allied products	15.9	-2
281	Basic chemicals	(T)	(D)
282	Fibers, plastics, rubbers	(T)	(D)
283	Drugs	(T)	(D)
284	Cleaning and toilet goods	(T)	(D)
289	Miscellaneous chemical products	(T)	(c)
	New England--Con.		
	Connecticut--Con.		
30	Rubber and plastics products, n.e.c	3.3	6
301	Tires and inner tubes	(T)	(D)
302	Rubber footwear	(S)	(c)
306	Rubber products, n.e.c	1.5	3
307	Plastics products, n.e.c	.4	(c)
32	Stone, clay, and glass products	2.5	1
323	Products of purchased glass	(S)	(c)
326	Pottery and related products	(S)	(c)
329	Nonmetallic mineral products	2.0	1
33	Primary metal industries	8.8	(b)
331	Steel rolling and finishing	2.0	(c)
335	Nonferrous rolling and drawing	6.7	(b)
336	Nonferrous foundries	(S)	(c)
339	Primary metal industries, n.e.c	(S)	(c)
34	Fabricated metal products	14.4	20
342	Cutlery, hand tools, hardware	(U)	14
343	Plumbing and heating, except electric	(S)	(c)
344	Structural metal products	(S)	(c)
345	Screw machine products, bolts, etc	.8	(c)
346	Metal stampings	(S)	(c)
348	Fabricated wire products, n.e.c	(S)	(c)
349	Fabricated metal products, n.e.c	(T)	(b)
35	Machinery, except electrical	57.6	14
351	Engines and turbines	(T)	(c)
354	Metalworking machinery	13.2	-1
355	Special industry machinery	16.5	26
356	General industrial machinery	13.6	8
357	Office machines, n.e.c	12.0	16
358	Service industry machinery	(S)	(c)
36	Electrical machinery	19.2	33
361	Electric distribution products	(T)	(D)
362	Electric industrial apparatus	2.0	12
363	Household appliances	5.8	34
364	Lighting and wiring devices	3.0	31
365	Radio and TV receiving equipment	(S)	(c)
366	Communication equipment	2.0	(b)
367	Electronic components	3.6	(b)
369	Electrical products, n.e.c	(S)	(c)
37	Transportation equipment	(Y)	(D)
371	Motor vehicles and equipment	(T)	(D)
372	Aircraft and parts	(Y)	(D)
373	Ship and boat building	(T)	(D)
38	Instruments and related products	13.8	19
382	Mechanical measuring devices	4.9	-17
383	Optical instruments and lenses	(T)	(D)
384	Medical instruments and supplies	(T)	(b)
385	Ophthalmic goods	(S)	(c)
386	Photographic equipment	(S)	(c)
387	Watches, clocks, and watchcases	2.1	(b)
39} 19}	Miscellaneous manufacturing and ordnance and accessories	12.8	-7
391	Jewelry and silverware	(T)	(c)
394	Toys and sporting goods	(S)	(c)
395	Pens, pencils, and office supplies	(T)	(D)
396	Costume jewelry and notions	1.3	17
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	9.2	-12
	Middle Atlantic, total	2,477.0	12
20	Food and kindred products	66.8	-30
202	Dairies	(T)	(D)
204	Grain mills	15.3	-43
206	Sugar	(S)	(c)
207	Candy and related products	7.8	-5
209	Miscellaneous foods and kindred products	18.4	-29
21	Tobacco manufactures	(T)	(D)
212	Cigars	.7	(c)
214	Tobacco stemming and redrying	(S)	(c)
26	Paper and allied products	17.5	6
262	Paper mills, except building	10.9	7
263	Paperboard mills	.6	(c)
266	Building paper and board mills	3.9	44

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	Middle Atlantic--Con.		
28	Chemicals and allied products	326.1	-2
281	Basic chemicals	116.9	5
282	Fibers, plastics, rubbers	59.1	3
283	Drugs	97.2	-12
284	Cleaning and toilet goods	24.5	-8
285	Paints and allied products	7.4	-7
287	Agricultural chemicals	10.2	(a)
289	Miscellaneous chemical products	10.8	11
29	Petroleum and coal products	83.4	1
291	Petroleum refining	76.1	1
295	Paving and roofing materials	.8	(c)
299	Petroleum and coal products, n.e.c	6.5	3
30	Rubber and plastics products, n.e.c	27.1	13
301	Tires and inner tubes	5.2	-12
302	Rubber footwear	(S)	(c)
303	Reclaimed rubber	(T)	(D)
306	Rubber products, n.e.c	15.1	18
307	Plastics products, n.e.c	5.9	31
32	Stone, clay, and glass products	45.8	7
321	Flat glass	(T)	(D)
322	Pressed and blown glassware	12.1	2
323	Products of purchased glass	(T)	(D)
326	Pottery and related products	2.3	-23
329	Nonmetallic mineral products	24.6	23
33	Primary metal industries	221.2	-18
331	Steel rolling and finishing	158.6	-20
333	Primary nonferrous metal	24.3	-30
334	Secondary nonferrous metals	9.1	-32
335	Nonferrous rolling and drawing	24.7	19
336	Nonferrous foundries	2.3	(b)
339	Primary metal industries, n.e.c	1.9	(b)
34	Fabricated metal products	91.8	25
341	Metal cans	(T)	(D)
342	Cutlery, hand tools, hardware	13.4	2
343	Plumbing and heating, except electric	6.6	34
344	Structural metal products	23.1	22
345	Screw machine products, bolts, etc	4.5	21
346	Metal stampings	13.1	33
347	Metal services, n.e.c	(S)	(c)
348	Fabricated wire products, n.e.c	3.1	34
349	Fabricated metal products, n.e.c	24.8	(b)
35	Machinery, except electrical	593.7	33
351	Engines and turbines	119.2	(b)
352	Farm machinery and equipment	2.0	(b)
353	Construction and like equipment	61.1	-7
354	Metalworking machinery	89.0	12
355	Special industry machinery	69.1	8
356	General industrial machinery	94.1	34
357	Office machines, n.e.c	114.7	(b)
358	Service industry machines	40.4	36
359	Miscellaneous machinery	4.1	(b)
36	Electrical machinery	304.8	24
361	Electric distribution products	50.4	35
362	Electric industrial apparatus	75.3	38
363	Household appliances	13.0	38
364	Lighting and wiring devices	24.9	1
365	Radio and TV receiving equipment	19.2	5
366	Communication equipment	70.0	34
367	Electronic components	39.5	4
369	Electrical products, n.e.c	12.5	12
37	Transportation equipment	374.4	11
371	Motor vehicles and equipment	205.2	4
372	Aircraft and parts	68.3	4
373	Ship and boat building	(T)	(c)
374	Railroad equipment	99.5	37
379	Transportation equipment, n.e.c	(S)	(c)
38	Instruments and related products	211.3	29
381	Scientific instruments	21.3	24
382	Mechanical measuring devices	28.4	21
383	Optical instruments and lenses	(U)	(D)
384	Medical instruments and supplies	24.4	31
385	Ophthalmic goods	(T)	(D)
386	Photographic equipment	126.4	31
387	Watches, clocks, and watchcases	2.5	24
39 pt, 19	Miscellaneous manufacturing and ordnance and accessories	50.2	(b)
391	Jewelry and silverware	24.0	(b)
393	Musical instruments and parts	.8	(c)
39 pt, 19	Miscellaneous manufacturing and ordnance and accessories--Con.		
394	Toys and sporting goods	3.3	(b)
395	Pens, pencils, and office supplies	6.5	3
396	Costume jewelry and notions	1.6	-4
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	14.1	(b)
	New York, total	1,010.9	17
20	Food and kindred products	44.4	-33
202	Dairies	(T)	(D)
204	Grain mills	13.8	-42
206	Sugar	(S)	(c)
207	Candy and related products	4.7	-15
209	Miscellaneous foods and kindred products	9.4	-38
26	Paper and allied products	4.5	-28
262	Paper mills, except building	(T)	(D)
263	Paperboard mills	(S)	(D)
266	Building paper and board mills	(S)	(c)
28	Chemicals and allied products	90.5	-12
281	Basic chemicals	16.2	-2
282	Fibers, plastics, rubbers	5.9	-3
283	Drugs	54.6	-20
284	Cleaning and toilet goods	9.7	20
285	Paints and allied products	(S)	(D)
287	Agricultural chemicals	(S)	(c)
289	Miscellaneous chemical products	2.5	-7
29	Petroleum and coal products	5.5	-6
291	Petroleum refining	(T)	(D)
295	Paving and roofing materials	(S)	(c)
299	Petroleum and coal products, n.e.c	(S)	(c)
30	Rubber and plastics products, n.e.c	7.2	23
301	Tires and inner tubes	(S)	(c)
303	Reclaimed rubber	(S)	(c)
306	Rubber products, n.e.c	3.6	25
307	Plastics products, n.e.c	2.5	49
32	Stone, clay, and glass products	20.0	12
322	Pressed and blown glassware	4.9	14
323	Products of purchased glass	(S)	(c)
326	Pottery and related products	(S)	(c)
329	Nonmetallic mineral products	12.1	17
33	Primary metal industries	33.5	-42
331	Steel rolling and finishing	19.8	(b)
333	Primary nonferrous metal	4.6	(b)
335	Nonferrous rolling and drawing	7.9	(b)
336	Nonferrous foundries	(S)	(c)
339	Primary metal industries, n.e.c	(T)	(c)
34	Fabricated metal products	16.1	37
341	Metal cans	(S)	(c)
342	Cutlery, hand tools, hardware	3.6	9
343	Plumbing and heating, except electric	(S)	(c)
344	Structural metal products	4.4	(b)
345	Screw machine products, bolts, etc	.9	(c)
346	Metal stampings	3.4	11
348	Fabricated wire products, n.e.c	(S)	(c)
349	Fabricated metal products, n.e.c	2.4	(c)
35	Machinery, except electrical	269.4	31
351	Engines and turbines	75.5	(b)
352	Farm machinery and equipment	(T)	(D)
353	Construction and like equipment	4.5	-19
354	Metalworking machinery	(V)	(D)
355	Special industry machinery	25.4	-1
356	General industrial machinery	43.3	30
357	Office machines, n.e.c	74.2	17
358	Service industry machines	21.1	(b)
359	Miscellaneous machinery	(S)	(c)
36	Electrical machinery	126.9	23
361	Electric distribution products	3.5	26
362	Electric industrial apparatus	43.8	44
363	Household appliances	3.4	-35
364	Lighting and wiring devices	9.6	28
365	Radio and TV receiving equipment	11.3	-4
366	Communication equipment	35.2	37
367	Electronic components	13.4	-12
369	Electrical products, n.e.c	6.6	42

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	Middle Atlantic--Con.		
	New York--Con.		
37	Transportation equipment	153.2	34
371	Motor vehicles and equipment	70.1	3
372	Aircraft and parts	(V)	(D)
373	Ship and boat building	(T)	(c)
374	Railroad equipment	(X)	(D)
38	Instruments and related products	155.4	36
381	Scientific instruments	12.1	(b)
382	Mechanical measuring devices	8.4	(b)
383	Optical instruments and lenses	(U)	(D)
384	Medical instruments and supplies	(U)	(D)
385	Ophthalmic goods	(S)	(c)
386	Photographic equipment	117.8	31
387	Watches, clocks, and watchcases	(T)	(D)
39 19	Miscellaneous manufacturing and ordnance and accessories	35.8	(b)
391	Jewelry and silverware	23.1	(b)
393	Musical instruments and parts	(S)	(c)
394	Toys and sporting goods	1.4	28
395	Pens, pencils, and office supplies	3.4	9
396	Costume jewelry and notions	1.2	17
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	5.9	(b)
	New Jersey, total	578.7	2
20	Food and kindred products	15.7	-30
204	Grain mills	(S)	(c)
207	Candy and related products	(S)	(D)
209	Miscellaneous foods and kindred products	8.9	-17
21	Tobacco manufactures	(S)	(c)
26	Paper and allied products	5.4	10
262	Paper mills, except building	(T)	(D)
263	Paperboard mills	(S)	(c)
266	Building paper and board mills	(S)	(c)
28	Chemicals and allied products	135.6	-10
281	Basic chemicals	73.5	-5
282	Fibers, plastics, rubbers	7.1	(b)
283	Drugs	25.2	14
284	Cleaning and toilet goods	(V)	(D)
285	Paints and allied products	(T)	(D)
287	Agricultural chemicals	(U)	(D)
289	Miscellaneous chemical products	6.8	13
29	Petroleum and coal products	48.1	5
291	Petroleum refining	43.5	7
295	Paving and roofing materials	.5	(c)
299	Petroleum and coal products, n.e.c	4.1	-14
30	Rubber and plastics products, n.e.c	9.9	6
302	Rubber footwear	(S)	(c)
306	Rubber products, n.e.c	8.0	6
307	Plastics products, n.e.c	(T)	(D)
32	Stone, clay, and glass products	10.4	22
322	Pressed and blown glassware	(T)	(D)
326	Pottery and related products	(T)	(D)
329	Nonmetallic mineral products	6.6	38
33	Primary metal industries	41.2	-7
331	Steel rolling and finishing	2.5	-21
333	Primary nonferrous metal	(V)	(D)
334	Secondary nonferrous metals	(U)	(D)
335	Nonferrous rolling and drawing	11.3	11
336	Nonferrous foundries	(T)	(c)
34	Fabricated metal products	17.5	12
341	Metal cans	(T)	(D)
342	Cutlery, hand tools, hardware	3.7	-12
343	Plumbing and heating, except electric	(S)	(c)
344	Structural metal products	2.1	(c)
345	Screw machine products, bolts, etc	1.8	9
346	Metal stampings	1.2	-9
348	Fabricated wire products, n.e.c	(T)	(C)
349	Fabricated metal products, n.e.c	5.3	45
35	Machinery, except electrical	61.8	19
353	Construction and like equipment	11.4	7
354	Metalworking machinery	(T)	(b)
355	Special industry machinery	14.4	16
	Middle Atlantic--Con.		
	New Jersey--Con.		
35	Machinery, except electrical--Con.		
356	General industrial machinery	19.7	15
357	Office machines, n.e.c	(U)	(D)
358	Service industry machinery	4.2	-4
359	Miscellaneous machinery	(T)	(c)
36	Electrical machinery	70.7	32
361	Electric distribution products	9.7	14
362	Electric industrial apparatus	(T)	(D)
363	Household appliances	(U)	(D)
364	Lighting and wiring devices	5.4	-36
365	Radio and TV receiving equipment	(U)	(D)
366	Communication equipment	25.2	(b)
367	Electronic components	12.2	29
369	Electrical products, n.e.c	2.6	3
37	Transportation equipment	129.7	-1
371	Motor vehicles and equipment	105.1	5
372	Aircraft and parts	(V)	(D)
374	Railroad equipment	(T)	(D)
38	Instruments and related products	24.2	10
381	Scientific instruments	(U)	(D)
382	Mechanical measuring devices	1.0	(c)
384	Medical instruments and supplies	(U)	(D)
385	Ophthalmic goods	(S)	(c)
386	Photographic equipment	(U)	(D)
39 19	Miscellaneous manufacturing and ordnance and accessories	4.5	8
391	Jewelry and silverware	.8	(c)
394	Toys and sporting goods	(S)	(c)
395	Pens, pencils, and office supplies	1.8	-17
396	Costume jewelry and notions	(S)	(c)
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	1.0	-1
	Pennsylvania, total	887.5	13
20	Food and kindred products	6.6	6
202	Dairies	(S)	(c)
204	Grain mills	(T)	(c)
207	Candy and related products	(T)	(D)
209	Miscellaneous foods and kindred products	(S)	(c)
21	Tobacco manufactures	1.1	-2
212	Cigars	(S)	(c)
214	Tobacco stemming and redrying	(S)	(c)
26	Paper and allied products	7.6	40
262	Paper mills, except building	3.9	2
263	Paperboard mills	(S)	(c)
266	Building paper and board mills	(T)	(D)
28	Chemicals and allied products	100.0	23
281	Basic chemicals	27.2	(b)
282	Fibers, plastics, rubbers	46.1	35
283	Drugs	17.4	-14
284	Cleaning and toilet goods	(T)	(D)
285	Paints and allied products	1.8	-23
287	Agricultural chemicals	(T)	(D)
289	Miscellaneous chemical products	1.6	48
29	Petroleum and coal products	29.8	-2
291	Petroleum refining	(W)	(D)
295	Paving and roofing materials	(S)	(c)
299	Petroleum and coal products, n.e.c	(T)	(D)
30	Rubber and plastics products, n.e.c	10.0	13
301	Tires and inner tubes	(U)	(D)
306	Rubber products, n.e.c	3.4	48
307	Plastics products, n.e.c	(T)	(D)
32	Stone, clay, and glass products	15.4	-6
321	Flat glass	(T)	(D)
322	Pressed and blown glassware	(T)	(D)
323	Products of purchased glass	1.2	23
326	Pottery and related products	(S)	(c)
329	Nonmetallic mineral products	5.8	19
33	Primary metal industries	146.5	-12
331	Steel rolling and finishing	136.3	-11
333	Primary nonferrous metal	(T)	(D)
334	Secondary nonferrous metals	(S)	(c)
335	Nonferrous rolling and drawing	5.5	-5

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	Middle Atlantic--Con.		
	Pennsylvania--Con.		
33	Primary metal industries--Con.		
336	Nonferrous foundries	.8	(c)
339	Primary metal industries, n.e.c	(S)	(c)
34	Fabricated metal products	58.2	27
341	Metal cans	(T)	(D)
342	Cutlery, hand tools, hardware	6.1	8
343	Plumbing and heating, except electric	5.2	31
344	Structural metal products	16.6	4
345	Screw machine products, bolts. etc	1.8	48
346	Metal stampings	8.6	54
347	Metal services, n.e.c	(S)	(c)
348	Fabricated wire products, n.e.c	1.4	-21
349	Fabricated metal products, n.e.c	17.2	(b)
35	Machinery, except electrical	262.5	39
351	Engines and turbines	43.7	(b)
352	Farm machinery and equipment	(T)	(D)
353	Construction and like equipment	45.2	-9
354	Metalworking machinery	61.9	20
355	Special industry machinery	29.3	12
356	General industrial machinery	31.0	(b)
357	Office machines, n.e.c	(W)	(D)
358	Service industry machines	15.2	23
359	Miscellaneous machinery	(T)	(c)
36	Electrical machinery	107.3	21
361	Electric distribution products	37.2	42
362	Electric industrial apparatus	(W)	(D)
363	Household appliances	(T)	-13
364	Lighting and wiring devices	9.9	13
365	Radio and TV receiving equipment	(T)	(D)
366	Communication equipment	9.6	-3
367	Electronic components	14.0	5
369	Electrical products, n.e.c	3.3	-18
37	Transportation equipment	91.5	(a)
371	Motor vehicles and equipment	30.0	3
372	Aircraft and parts	22.8	14
373	Ship and boat building	(S)	(c)
374	Railroad equipment	38.3	-10
379	Transportation equipment, n.e.c	(S)	(c)
38	Instruments and related products	31.7	16
381	Scientific instruments	(T)	(c)
382	Mechanical measuring devices	19.0	4
384	Medical instruments and supplies	10.6	28
385	Ophthalmic goods	(S)	(c)
387	Watches, clocks, and watchcases	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	9.9	22
393	Musical instruments and parts	(S)	(c)
394	Toys and sporting goods	(T)	(D)
395	Pens, pencils, and office supplies	1.3	28
396	Costume jewelry and notions	(S)	(c)
398, 399, 19	Miscellaneous manufactures and ordnance and accessories	7.2	24
	East North Central, total	3,623.5	16
20	Food and kindred products	153.4	16
202	Dairies	22.1	36
204	Grain mills	35.1	29
207	Candy and related products	2.6	(a)
209	Miscellaneous foods and kindred products	82.7	14
21	Tobacco manufactures	(S)	(c)
26	Paper and allied products	9.0	11
262	Paper mills, except building	5.9	14
263	Paperboard mills	.4	(c)
266	Building paper and board mills	1.9	31
28	Chemicals and allied products	183.3	11
281	Basic chemicals	55.1	15
282	Fibers, plastics, rubbers	29.9	-24
283	Drugs	61.7	28
284	Cleaning and toilet goods	7.5	(b)
285	Paints and allied products	(T)	(D)
287	Agricultural chemicals	(S)	(c)
289	Miscellaneous chemical products	25.5	18
	East North Central--Con.		
29	Petroleum and coal products	10.2	9
291	Petroleum refining	7.9	13
295	Paving and roofing materials	.6	(c)
299	Petroleum and coal products, n.e.c	1.7	-13
30	Rubber and plastics products, n.e.c	73.2	-3
301	Tires and inner tubes	35.3	-22
303	Reclaimed rubber	(S)	(c)
306	Rubber products, n.e.c	23.4	20
307	Plastics products, n.e.c	(V)	(D)
32	Stone, clay, and glass products	51.6	45
321	Flat glass	(T)	(c)
322	Pressed and blown glassware	20.0	18
323	Products of purchased glass	3.3	42
326	Pottery and related products	7.0	11
328	Cut stone and stone products	(S)	(c)
329	Nonmetallic mineral products	18.1	(b)
33	Primary metal industries	158.6	-11
331	Steel rolling and finishing	120.3	-19
333	Primary nonferrous metal	(S)	(c)
334	Secondary nonferrous metals	(S)	(c)
335	Nonferrous rolling and drawing	21.2	(b)
336	Nonferrous foundries	4.3	1
339	Primary metal industries, n.e.c	9.6	18
34	Fabricated metal products	149.7	25
341	Metal cans	4.9	-4
342	Cutlery, hand tools, hardware	33.7	29
343	Plumbing and heating, except electric	10.5	(b)
344	Structural metal products	35.7	22
345	Screw machine products, bolts, etc	8.4	48
346	Metal stampings	25.5	49
347	Metal services, n.e.c	(S)	(c)
348	Fabricated wire products, n.e.c	(T)	(D)
349	Fabricated metal products, n.e.c	28.0	-1
35	Machinery, except electrical	1,342.0	17
351	Engines and turbines	138.3	30
352	Farm machinery and equipment	121.9	(b)
353	Construction and like equipment	580.2	11
354	Metalworking machinery	148.1	7
355	Special industry machinery	108.1	25
356	General industrial machinery	105.5	22
357	Office machines, n.e.c	80.5	6
358	Service industry machines	43.6	2
359	Miscellaneous machinery	15.8	11
36	Electrical machinery	302.4	15
361	Electric distribution products	16.8	31
362	Electric industrial apparatus	54.6	19
363	Household appliances	88.0	3
364	Lighting and wiring devices	23.9	(b)
365	Radio and TV receiving equipment	38.0	36
366	Communication equipment	23.7	-11
367	Electronic components	23.3	9
369	Electrical products, n.e.c	34.1	22
37	Transportation equipment	1,019.3	18
371	Motor vehicles and equipment	834.2	15
372	Aircraft and parts	133.2	(b)
373	Ship and boat building	(T)	(D)
374	Railroad equipment	(W)	(D)
375	Motorcycles, bicycles, and parts	(T)	(D)
379	Transportation equipment, n.e.c	.7	(c)
38	Instruments and related products	80.5	(b)
381	Scientific instruments	4.9	(b)
382	Mechanical measuring devices	40.1	(b)
383	Optical instruments and lenses	(S)	(c)
384	Medical instruments and supplies	4.4	-14
385	Ophthalmic goods	(S)	(c)
386	Photographic equipment	28.6	30
387	Watches, clocks, and watchcases	1.4	29
39, 19	Miscellaneous manufacturing and ordnance and accessories	55.8	28
391	Jewelry and silverware	(S)	(c)
393	Musical instruments and parts	(U)	34
394	Toys and sporting goods	9.0	-30
395	Pens, pencils, and office supplies	18.3	13
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	21.5	(b)

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	East North Central--Con.		
	Ohio, total	1,053.2	14
20	Food and kindred products	12.9	22
202	Dairies	(U)	(D)
204	Grain mills	(S)	(c)
209	Miscellaneous foods and kindred products	6.1	(b)
26	Paper and allied products	3.9	-6
262	Paper mills, except building	(T)	(D)
263	Paperboard mills	(S)	(c)
266	Building paper and board mills	(S)	(c)
28	Chemicals and allied products	46.6	4
281	Basic chemicals	8.9	-9
282	Fibers, plastics, rubbers	14.0	-16
283	Drugs	(T)	(c)
284	Cleaning and toilet goods	(T)	(c)
285	Paints and allied products	.6	(c)
289	Miscellaneous chemical products	19.8	24
29	Petroleum and coal products	1.8	21
291	Petroleum refining	(T)	(D)
299	Petroleum and coal products, n.e.c	(S)	(c)
30	Rubber and plastics products, n.e.c	50.8	-15
301	Tires and inner tubes	30.5	-26
303	Reclaimed rubber	(S)	(c)
306	Rubber products, n.e.c	17.7	7
307	Plastics products, n.e.c	(T)	(D)
32	Stone, clay, and glass products	23.0	25
321	Flat glass	(T)	(c)
322	Pressed and blown glassware	13.2	13
323	Products of purchased glass	(T)	(D)
326	Pottery and related products	2.4	42
328	Cut stone and stone products	(S)	(c)
329	Nonmetallic mineral products	4.7	(b)
33	Primary metal industries	84.8	-7
331	Steel rolling and finishing	65.8	-15
333	Primary nonferrous metal	(S)	(c)
335	Nonferrous rolling and drawing	11.5	(b)
336	Nonferrous foundries	(T)	(D)
339	Primary metal industries, n.e.c	3.1	(b)
34	Fabricated metal products	57.1	14
342	Cutlery, hand tools, hardware	12.1	24
343	Plumbing and heating, except electric	5.1	(b)
344	Structural metal products	21.5	24
345	Screw machine products, bolts, etc	2.6	29
346	Metal stampings	5.6	38
347	Metal services, n.e.c	(S)	(c)
348	Fabricated wire products, n.e.c	(T)	(c)
349	Fabricated metal products, n.e.c	8.8	-38
35	Machinery, except electrical	309.1	5
351	Engines and turbines	(U)	(D)
352	Farm machinery and equipment	3.9	-49
353	Construction and like equipment	78.7	3
354	Metalworking machinery	81.2	-3
355	Special industry machinery	26.3	10
356	General industrial machinery	43.9	13
357	Office machines, n.e.c	58.5	19
358	Service industry machines	8.6	22
359	Miscellaneous machinery	(T)	(D)
36	Electrical machinery	105.2	12
361	Electric distribution products	(T)	(D)
362	Electric industrial apparatus	32.2	10
363	Household appliances	38.8	4
364	Lighting and wiring devices	10.6	(b)
366	Communication equipment	(S)	(c)
367	Electronic components	6.7	22
369	Electrical products, n.e.c	12.9	5
37	Transportation equipment	332.2	42
371	Motor vehicles and equipment	229.6	15
372	Aircraft and parts	99.7	(b)
373	Ship and boat building	(S)	(c)
374	Railroad equipment	2.4	34
379	Transportation equipment, n.e.c	(S)	(c)
38	Instruments and related products	15.5	(b)
382	Mechanical measuring devices	15.0	(b)
384	Medical instruments and supplies	(S)	(c)
386	Photographic equipment	(S)	(c)
39 19-	Miscellaneous manufacturing and ordnance and accessories	5.4	-36
391	Jewelry and silverware	(S)	(c)
393	Musical instruments and parts	(S)	(c)
394	Toys and sporting goods	2.9	-47
395	Pens, pencils, and office supplies	(S)	(c)
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	1.8	-14

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	East North Central--Con.		
	Ohio--Con.		
39 19	Miscellaneous manufacturing and ordnance and accessories	5.4	-36
391	Jewelry and silverware	(S)	(c)
393	Musical instruments and parts	(S)	(c)
394	Toys and sporting goods	2.9	-47
395	Pens, pencils, and office supplies	(S)	(c)
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	1.8	-14
	Indiana, total	333.7	21
20	Food and kindred products	10.8	-10
202	Dairies	(S)	(c)
204	Grain mills	2.5	30
209	Miscellaneous foods and kindred products	(U)	(D)
26	Paper and allied products	(S)	(c)
28	Chemicals and allied products	11.8	-9
281	Basic chemicals	1.6	(b)
282	Fibers, plastics, rubbers	1.6	-9
283	Drugs	(U)	(D)
284	Cleaning and toilet goods	(S)	(c)
285	Paints and allied products	(S)	(c)
29	Petroleum and coal products	(T)	(D)
30	Rubber and plastics products, n.e.c	6.1	(b)
301	Tires and inner tubes	(T)	(c)
306	Rubber products, n.e.c	3.6	(b)
307	Plastics products, n.e.c	(S)	(c)
32	Stone, clay, and glass products	2.7	-8
322	Pressed and blown glassware	(S)	(c)
328	Cut stone and stone products	(S)	(c)
329	Nonmetallic mineral products	1.9	2
33	Primary metal industries	23.9	22
331	Steel rolling and finishing	18.4	19
333	Primary nonferrous metal	(S)	(c)
334	Secondary nonferrous metals	(S)	(c)
335	Nonferrous rolling and drawing	5.0	44
336	Nonferrous foundries	(S)	(c)
339	Primary metal industries, n.e.c	(S)	(c)
34	Fabricated metal products	14.6	22
341	Metal cans	(S)	(c)
342	Cutlery, hand tools, hardware	1.6	(b)
343	Plumbing and heating, except electric	1.4	(c)
344	Structural metal products	3.9	-21
345	Screw machine products, bolts, etc	(S)	(c)
346	Metal stampings	4.1	(b)
348	Fabricated wire products, n.e.c	(S)	(c)
349	Fabricated metal products, n.e.c	3.1	49
35	Machinery, except electrical	89.7	25
351	Engines and turbines	(W)	(D)
352	Farm machinery and equipment	3.7	(b)
353	Construction and like equipment	16.9	41
354	Metalworking machinery	5.8	(b)
355	Special industry machinery	2.4	(b)
356	General industrial machinery	14.5	12
357	Office machines, n.e.c	(S)	(c)
358	Service industry machines	3.7	-4
359	Miscellaneous machinery	7.5	-2
36	Electrical machinery	47.2	-5
361	Electric distribution products	1.5	18
362	Electric industrial apparatus	3.7	(b)
363	Household appliances	10.8	-11
364	Lighting and wiring devices	2.9	(b)
365	Radio and TV receiving equipment	8.3	44
366	Communication equipment	(T)	(D)
367	Electronic components	4.7	-26
369	Electrical products, n.e.c	(V)	(D)
37	Transportation equipment	107.0	31
371	Motor vehicles and equipment	85.3	26
372	Aircraft and parts	21.5	(b)
374	Railroad equipment	(S)	(c)
379	Transportation equipment, n.e.c	(S)	(c)
38	Instruments and related products	14.7	(b)
381	Scientific instruments	(T)	(c)
382	Mechanical measuring devices	(T)	(D)

See footnotes at end of table 1.

Table 20.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	East North Central--Con.		
	Indiana--Con.		
38	Instruments and related products--Con.		
384	Medical instruments and supplies	(S)	(c)
385	Ophthalmic goods	(S)	(c)
386	Photographic equipment	(V)	(D)
387	Watches, clocks, and watchcases	(S)	(c)
39 } 19 }	Miscellaneous manufacturing and ordnance and accessories	(T)	(c)
391	Jewelry and silverware	(S)	(c)
393	Musical instruments and parts	(T)	(c)
394	Toys and sporting goods	(S)	(c)
395	Pens, pencils, and office supplies	(S)	(c)
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	(S)	(c)
	Illinois, total	1,056.9	14
20	Food and kindred products	99.6	15
202	Dairies	(S)	(c)
204	Grain mills	27.4	31
207	Candy and related products	(T)	(D)
209	Miscellaneous foods and kindred products	64.1	11
21	Tobacco manufactures	(S)	(c)
26	Paper and allied products	(T)	(c)
28	Chemicals and allied products	40.7	23
281	Basic chemicals	18.7	35
282	Fibers, plastics, rubbers	(T)	(c)
283	Drugs	12.7	18
284	Cleaning and toilet goods	3.7	21
285	Paints and allied products	(T)	(D)
289	Miscellaneous chemical products	2.4	5
29	Petroleum and coal products	4.2	17
291	Petroleum refining	(T)	(D)
295	Paving and roofing materials	.6	(c)
299	Petroleum and coal products, n.e.c	(T)	(D)
30	Rubber and plastics products, n.e.c	9.3	24
306	Rubber products, n.e.c	1.2	(c)
307	Plastics products, n.e.c	8.1	20
32	Stone, clay, and glass products	8.2	(b)
322	Pressed and blown glassware	(T)	(D)
323	Products of purchased glass	(S)	(c)
326	Pottery and related products	.4	(c)
329	Nonmetallic mineral products	4.3	44
33	Primary metal industries	13.9	-10
331	Steel rolling and finishing	10.8	-18
334	Secondary nonferrous metals	(S)	(c)
335	Nonferrous rolling and drawing	2.1	(c)
336	Nonferrous foundries	.4	(c)
339	Primary metal industries, n.e.c	(S)	(c)
34	Fabricated metal products	36.3	16
341	Metal cans	(T)	(D)
342	Cutlery, hand tools, hardware	7.0	14
343	Plumbing and heating, except electric	2.5	29
344	Structural metal products	1.7	-35
345	Screw machine products, bolts, etc	3.1	(b)
346	Metal stampings	4.5	21
347	Metal services, n.e.c	(S)	(c)
348	Fabricated wire products, n.e.c	.7	(c)
349	Fabricated metal products, n.e.c	11.9	25
35	Machinery, except electrical	586.4	17
351	Engines and turbines	25.9	(b)
352	Farm machinery and equipment	52.7	(b)
353	Construction and like equipment	406.2	10
354	Metalworking machinery	31.2	13
355	Special industry machinery	30.5	37
356	General industrial machinery	24.0	26
357	Office machines, n.e.c	6.5	34
358	Service industry machines	6.8	21
359	Miscellaneous machinery	2.5	(b)
36	Electrical machinery	95.8	30
361	Electric distribution products	7.8	41
362	Electric industrial apparatus	3.4	-3
363	Household appliances	23.3	26
364	Lighting and wiring devices	9.9	37
	East North Central--Con.		
	Illinois--Con.		
36	Electrical machinery--Con.		
365	Radio and TV receiving equipment	27.4	34
366	Communication equipment	18.2	36
367	Electronic components	3.0	6
369	Electrical products, n.e.c	2.8	24
37	Transportation equipment	75.1	-33
371	Motor vehicles and equipment	24.3	-1
372	Aircraft and parts	(U)	(D)
374	Railroad equipment	(W)	(D)
38	Instruments and related products	35.8	8
381	Scientific instruments	2.6	45
382	Mechanical measuring devices	10.9	(b)
383	Optical instruments and lenses	(S)	(c)
384	Medical instruments and supplies	3.1	-27
386	Photographic equipment	18.2	-6
387	Watches, clocks, and watchcases	(S)	(c)
39 } 19 }	Miscellaneous manufacturing and ordnance and accessories	27.3	(b)
391	Jewelry and silverware	(S)	(c)
393	Musical instruments and parts	4.8	45
394	Toys and sporting goods	2.8	(b)
395	Pens, pencils, and office supplies	(T)	(D)
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	16.2	(b)
	Michigan, total	836.4	15
20	Food and kindred products	14.5	28
202	Dairies	(U)	(D)
204	Grain mills	(T)	27
209	Miscellaneous foods and kindred products	4.8	41
26	Paper and allied products	2.2	47
262	Paper mills, except building	(T)	(c)
263	Paperboard mills	(S)	(c)
266	Building paper and board mills	(S)	(c)
28	Chemicals and allied products	81.5	12
281	Basic chemicals	25.9	12
282	Fibers, plastics, rubbers	(V)	(D)
283	Drugs	38.2	49
284	Cleaning and toilet goods	(S)	(c)
285	Paints and allied products	.9	(c)
287	Agricultural chemicals	(S)	(c)
289	Miscellaneous chemical products	2.8	(a)
29	Petroleum and coal products	(T)	(D)
30	Rubber and plastics products, n.e.c	5.6	14
301	Tires and inner tubes	(T)	(D)
306	Rubber products, n.e.c	(S)	(c)
307	Plastics products, n.e.c	1.9	(b)
32	Stone, clay, and glass products	11.2	36
321	Flat glass	(T)	(c)
322	Pressed and blown glassware	(T)	(D)
323	Products of purchased glass	(T)	(c)
326	Pottery and related products	(T)	(D)
329	Nonmetallic mineral products	(T)	(c)
33	Primary metal industries	29.7	-34
331	Steel rolling and finishing	25.1	-38
335	Nonferrous rolling and drawing	2.6	11
336	Nonferrous foundries	1.3	3
339	Primary metal industries, n.e.c	.8	(c)
34	Fabricated metal products	28.0	(b)
342	Cutlery, hand tools, hardware	9.0	(b)
343	Plumbing and heating, except electric	(S)	(c)
344	Structural metal products	4.3	(b)
345	Screw machine products, bolts, etc	(T)	(D)
346	Metal stampings	8.6	(b)
348	Fabricated wire products, n.e.c	.7	(c)
349	Fabricated metal products, n.e.c	(T)	(D)
35	Machinery, except electrical	172.7	30
351	Engines and turbines	35.4	28
352	Farm machinery and equipment	33.6	(b)
353	Construction and like equipment	22.8	(b)
354	Metalworking machinery	25.1	43
355	Special industry machinery	5.9	-3

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	East North Central--Con.		
	Michigan--Con.		
35	Machinery, except electrical--Con.		
356	General industrial machinery	12.9	(b)
357	Office machines, n.e.c	(V)	(D)
358	Service industry machines	18.7	-10
359	Miscellaneous machinery	(T)	(D)
36	Electrical machinery	19.4	-3
361	Electric distribution products	(S)	(c)
362	Electric industrial apparatus	2.3	15
363	Household appliances	10.5	-18
364	Lighting and wiring devices	(S)	(c)
365	Radio and TV receiving equipment	(T)	(D)
367	Electronic components	(T)	(D)
369	Electrical products, n.e.c	(T)	(D)
37	Transportation equipment	452.4	12
371	Motor vehicles and equipment	443.8	11
372	Aircraft and parts	6.2	25
373	Ship and boat building	(T)	(D)
374	Railroad equipment	(T)	(c)
379	Transportation equipment, n.e.c	(S)	(c)
38	Instruments and related products	9.5	(b)
381	Scientific instruments	(S)	(c)
382	Mechanical measuring devices	(U)	(D)
384	Medical instruments and supplies	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	5.6	-10
393	Musical instruments and parts	(S)	(c)
394	Toys and sporting goods	3.0	-45
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	(T)	(c)
	Wisconsin, total	343.2	31
20	Food and kindred products	15.5	33
202	Dairies	10.6	(b)
204	Grain mills	(T)	(D)
209	Miscellaneous foods and kindred products	(S)	(c)
26	Paper and allied products	1.7	-9
262	Paper mills, except building	1.7	-11
266	Building paper and board mills	(S)	(c)
28	Chemicals and allied products	2.7	18
282	Fibers, plastics, rubbers	(S)	(c)
283	Drugs	(T)	(D)
284	Cleaning and toilet goods	(S)	(c)
285	Paints and allied products	(S)	(c)
289	Miscellaneous chemical products	.5	(c)
30	Rubber and plastics products, n.e.c	1.4	(c)
301	Tires and inner tubes	(S)	(c)
306	Rubber products, n.e.c	(S)	(c)
307	Plastics products, n.e.c	1.0	(c)
32	Stone, clay, and glass products	6.5	(b)
326	Pottery and related products	(S)	(c)
329	Nonmetallic mineral products	(U)	(c)
33	Primary metal industries	6.2	-11
331	Steel rolling and finishing	.3	(c)
336	Nonferrous foundries	.5	(c)
339	Primary metal industries, n.e.c	(U)	(D)
34	Fabricated metal products	13.7	27
342	Cutlery, hand tools, hardware	4.1	16
343	Plumbing and heating, except electric	(T)	(D)
344	Structural metal products	4.4	(b)
346	Metal stampings	2.7	-3
349	Fabricated metal products, n.e.c	(T)	(c)
35	Machinery, except electrical	184.1	27
351	Engines and turbines	36.0	18
352	Farm machinery and equipment	28.0	(b)
353	Construction and like equipment	55.7	19
354	Metalworking machinery	4.7	-27
355	Special industry machinery	43.0	31
356	General industrial machinery	10.1	21
357	Office machines, n.e.c	(S)	(c)
358	Service industry machines	5.9	5
359	Miscellaneous machinery	(S)	(c)
	East North Central--Con.		
	Wisconsin--Con.		
36	Electrical machinery	34.8	33
361	Electric distribution products	4.0	39
362	Electric industrial apparatus	13.1	47
363	Household appliances	4.5	-7
364	Lighting and wiring devices	(S)	(c)
365	Radio and TV receiving equipment	(S)	(c)
367	Electronic components	(U)	(D)
369	Electrical products, n.e.c	5.8	47
37	Transportation equipment	52.5	(b)
371	Motor vehicles and equipment	51.1	(b)
375	Motorcycles, bicycles, and parts	(T)	(D)
379	Transportation equipment, n.e.c	(S)	(c)
38	Instruments and related products	4.8	(b)
381	Scientific instruments	(S)	(c)
382	Mechanical measuring devices	4.0	(b)
387	Watches, clocks, and watchcases	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(V)	(D)
393	Musical instruments and parts	(S)	(c)
394	Toys and sporting goods	(S)	(c)
395	Pens, pencils, and office supplies	(V)	(D)
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	(T)	(D)
	West North Central, total	459.3	19
20	Food and kindred products	100.2	17
202	Dairies	6.3	(b)
204	Grain mills	66.8	41
207	Candy and related products	(S)	(c)
209	Miscellaneous foods and kindred products	(T)	(D)
21	Tobacco manufactures	(S)	(c)
26	Paper and allied products	(U)	(D)
28	Chemicals and allied products	30.9	27
281	Basic chemicals	13.2	(b)
282	Fibers, plastics, rubbers	(T)	(D)
283	Drugs	4.8	37
284	Cleaning and toilet goods	.6	(c)
287	Agricultural chemicals	(S)	(c)
289	Miscellaneous chemical products	8.5	-16
29	Petroleum and coal products	1.4	-42
291	Petroleum refining	(S)	(c)
299	Petroleum and coal products, n.e.c	(S)	(c)
30	Rubber and plastics products, n.e.c	6.9	-16
301	Tires and inner tubes	(T)	(D)
306	Rubber products, n.e.c	1.4	28
307	Plastics products, n.e.c	(S)	(c)
32	Stone, clay, and glass products	(V)	(D)
321	Flat glass	(T)	(D)
329	Nonmetallic mineral products	(T)	(D)
33	Primary metal industries	4.0	(b)
331	Steel rolling and finishing	(T)	(D)
333	Primary nonferrous metal	(S)	(c)
335	Nonferrous rolling and drawing	(T)	(D)
34	Fabricated metal products	(V)	(D)
341	Metal cans	(S)	(c)
342	Cutlery, hand tools, hardware	1.2	(c)
343	Plumbing and heating, except electric	2.1	-5
344	Structural metal products	4.2	45
345	Screw machine products, bolts, etc	(S)	(c)
346	Metal stampings	(S)	(c)
348	Fabricated wire products, n.e.c	(S)	(c)
349	Fabricated metal products, n.e.c	4.4	15
35	Machinery, except electrical	164.3	19
351	Engines and turbines	6.5	19
352	Farm machinery and equipment	68.6	14
353	Construction and like equipment	29.8	12
354	Metalworking machinery	(T)	(D)
355	Special industry machinery	(T)	(D)
356	General industrial machinery	6.2	-36
357	Office machines, n.e.c	19.4	(b)
358	Service industry machines	21.3	27
359	Miscellaneous machinery	6.0	(b)

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	West North Central--Con.		
36	Electrical machinery	41.9	-4
361	Electric distribution products	3.0	(b)
362	Electric industrial apparatus	5.3	-4
363	Household appliances	13.0	-4
364	Lighting and wiring devices	2.4	34
365	Radio and TV receiving equipment	.6	(c)
366	Communication equipment	(V)	(d)
367	Electronic components	1.9	(c)
369	Electrical products, n.e.c.	(S)	(c)
37	Transportation equipment	35.8	20
371	Motor vehicles and equipment	8.2	19
372	Aircraft and parts	26.7	21
374	Railroad equipment	(S)	(c)
375	Motorcycles, bicycles, and parts	(S)	(c)
379	Transportation equipment, n.e.c.	(S)	(c)
38	Instruments and related products	34.0	(b)
381	Scientific instruments	(V)	(D)
382	Mechanical measuring devices	(U)	(D)
384	Medical instruments and supplies	4.9	49
39, 19	Miscellaneous manufacturing and ordnance and accessories	5.7	27
391	Jewelry and silverware	(S)	(c)
394	Toys and sporting goods	.7	(c)
395	Pens, pencils, and office supplies	(T)	(D)
396	Costume jewelry and notions	(S)	(c)
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	(S)	(c)
	Minnesota, total	105.9	36
20	Food and kindred products	9.8	-5
202	Dairies	(T)	(D)
204	Grain mills	2.0	15
207	Candy and related products	(S)	(c)
209	Miscellaneous foods and kindred products	(S)	(c)
26	Paper and allied products	(U)	(D)
28	Chemicals and allied products	(T)	(D)
283	Drugs	(S)	(c)
284	Cleaning and toilet goods	(S)	(c)
289	Miscellaneous chemical products	(T)	(D)
29	Petroleum and coal products	(S)	(c)
30	Rubber and plastics products, n.e.c.	.9	(c)
306	Rubber products, n.e.c.	(S)	(c)
307	Plastics products, n.e.c.	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	(S)	(c)
34	Fabricated metal products	1.6	13
341	Metal cans	(S)	(c)
342	Cutlery, hand tools, hardware	(S)	(c)
344	Structural metal products	(S)	(c)
346	Metal stampings	(S)	(c)
349	Fabricated metal products, n.e.c.	(S)	(c)
35	Machinery, except electrical	46.6	(b)
351	Engines and turbines	(S)	(c)
352	Farm machinery and equipment	3.8	12
353	Construction and like equipment	5.6	-12
354	Metalworking machinery	1.3	6
355	Special industry machinery	(S)	(c)
356	General industrial machinery	1.6	(b)
357	Office machines, n.e.c.	(V)	(D)
358	Service industry machines	12.8	(b)
359	Miscellaneous machinery	(S)	(c)
36	Electrical machinery	6.2	-26
362	Electric industrial apparatus	4.2	8
363	Household appliances	(T)	(D)
365	Radio and TV receiving equipment	(S)	(c)
366	Communication equipment	(S)	(c)
367	Electronic components	(S)	(c)
369	Electrical products, n.e.c.	(S)	(c)
37	Transportation equipment	(S)	(c)
371	Motor vehicles and equipment	(S)	(c)
372	Aircraft and parts	(S)	(c)

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	West North Central--Con.		
	Minnesota--Con.		
38	Instruments and related products	(W)	(D)
381	Scientific instruments	(V)	(D)
382	Mechanical measuring devices	(U)	(D)
384	Medical instruments and supplies	(T)	(D)
39, 19	Miscellaneous manufacturing and ordnance and accessories	.5	(c)
391	Jewelry and silverware	(S)	(c)
394	Toys and sporting goods	(S)	(c)
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	(S)	(c)
	Iowa, total	158.2	6
20	Food and kindred products	21.6	-28
202	Dairies	(T)	(D)
204	Grain mills	5.2	-27
209	Miscellaneous foods and kindred products	(T)	(D)
28	Chemicals and allied products	4.0	(b)
281	Basic chemicals	(S)	(c)
282	Fibers, plastics, rubbers	(T)	(D)
283	Drugs	(T)	(D)
284	Cleaning and toilet goods	(S)	(c)
287	Agricultural chemicals	(S)	(c)
30	Rubber and plastics products, n.e.c.	(T)	(D)
301	Tires and inner tubes	(T)	(D)
307	Plastics products, n.e.c.	(S)	(c)
33	Primary metal industries	(T)	(D)
331	Steel rolling and finishing	(S)	(c)
335	Nonferrous rolling and drawing	(T)	(D)
34	Fabricated metal products	3.6	24
343	Plumbing and heating, except electric	.1	(c)
344	Structural metal products	.4	(c)
346	Metal stampings	(S)	(c)
349	Fabricated metal products, n.e.c.	(T)	(D)
35	Machinery, except electrical	90.0	20
351	Engines and turbines	(U)	(D)
352	Farm machinery and equipment	62.3	13
353	Construction and like equipment	20.4	(b)
354	Metalworking machinery	(S)	(c)
355	Special industry machinery	(S)	(c)
356	General industrial machinery	.9	(c)
358	Service industry machines	(S)	(c)
36	Electrical machinery	27.2	-5
361	Electric distribution products	(T)	(c)
362	Electric industrial apparatus	(S)	(c)
363	Household appliances	10.4	22
365	Radio and TV receiving equipment	(S)	(c)
366	Communication equipment	(V)	(D)
367	Electronic components	1.6	(c)
369	Electrical products, n.e.c.	(S)	(c)
37	Transportation equipment	.7	(c)
371	Motor vehicles and equipment	(S)	(c)
372	Aircraft and parts	(S)	(c)
379	Transportation equipment, n.e.c.	(S)	(c)
38	Instruments and related products	(T)	(D)
39, 19	Miscellaneous manufacturing and ordnance and accessories	4.5	22
394	Toys and sporting goods	(S)	(c)
395	Pens, pencils, and office supplies	(T)	(D)
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	(S)	(c)
	Missouri, total	99.4	11
20	Food and kindred products	21.9	-2
202	Dairies	(T)	(D)
204	Grain mills	(V)	(D)
21	Tobacco manufactures	(S)	(c)
26	Paper and allied products	(S)	(c)

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	West North Central--Con.		
	Missouri--Con.		
28	Chemicals and allied products	19.0	22
281	Basic chemicals	(V)	(D)
283	Drugs	3.3	39
284	Cleaning and toilet goods	(S)	(c)
287	Agricultural chemicals	(S)	(c)
289	Miscellaneous chemical products	(T)	(D)
29	Petroleum and coal products	(S)	(c)
30	Rubber and plastics products, n.e.c	(S)	(c)
32	Stone, clay, and glass products	9.9	(b)
321	Flat glass	(T)	(D)
329	Nonmetallic mineral products	(S)	(c)
33	Primary metal industries:	(T)	(D)
331	Steel rolling and finishing	(T)	(D)
335	Nonferrous rolling and drawing	(S)	(c)
34	Fabricated metal products	5.0	34
342	Cutlery, hand tools, hardware	(S)	(c)
343	Plumbing and heating, except electric	(S)	(c)
344	Structural metal products	2.7	31
345	Screw machine products, bolts, etc	(S)	(c)
346	Metal stampings	(S)	(c)
348	Fabricated wire products, n.e.c	(S)	(c)
349	Fabricated metal products, n.e.c	(T)	(c)
35	Machinery, except electrical	19.5	-6
351	Engines and turbines	(S)	(c)
352	Farm machinery and equipment	(T)	(c)
353	Construction and like equipment	(T)	(D)
354	Metalworking machinery	(T)	(D)
355	Special industry machinery	(T)	(D)
356	General industrial machinery	(S)	(c)
357	Office machines, n.e.c	(S)	(c)
358	Service industry machines	8.1	-6
359	Miscellaneous machinery	3.5	(b)
36	Electrical machinery	(U)	(D)
361	Electric distribution products	(T)	(D)
362	Electric industrial apparatus	(S)	(c)
363	Household appliances	(T)	(D)
364	Lighting and wiring devices	2.4	34
366	Communication equipment	(T)	(D)
369	Electrical products, n.e.c	(S)	(c)
37	Transportation equipment	10.4	38
371	Motor vehicles and equipment	7.3	12
372	Aircraft and parts	(T)	(c)
374	Railroad equipment	(S)	(c)
38	Instruments and related products	2.6	(b)
382	Mechanical measuring devices	(T)	(c)
384	Medical instruments and supplies	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
394	Toys and sporting goods	(S)	(c)
395	Pens, pencils, and office supplies	(S)	(c)
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	(S)	(c)
	South Dakota, total	(T)	(D)
20	Food and kindred products	(T)	(c)
35	Machinery, except electrical	(T)	(c)
353	Construction and like equipment	(S)	(c)
359	Miscellaneous machinery	(S)	(c)
	Nebraska, total	(V)	(D)
20	Food and kindred products	(U)	(D)
202	Dairies	(S)	(c)
204	Grain mills	(T)	(D)
28	Chemicals and allied products	(T)	(c)
281	Basic chemicals	(T)	(c)
283	Drugs	(S)	(c)
30	Rubber and plastics products, n.e.c	(S)	(c)
33	Primary metal industries	(S)	(c)
	West North Central--Con.		
	Nebraska--Con.		
34	Fabricated metal products	(T)	(c)
341	Metal cans	(S)	(c)
342	Cutlery, hand tools, hardware	(S)	(c)
344	Structural metal products	(T)	(c)
349	Fabricated metal products, n.e.c	(S)	(c)
35	Machinery, except electrical	(T)	(D)
352	Farm machinery and equipment	.5	(c)
356	General industrial machinery	(T)	(D)
37	Transportation equipment	(S)	(c)
371	Motor vehicles and equipment	(S)	(c)
375	Motorcycles, bicycles, and parts	(S)	(c)
379	Transportation equipment, n.e.c	(S)	(c)
38	Instruments and related products	(T)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Kansas, total	76.9	48
20	Food and kindred products	38.4	(b)
204	Grain mills	(W)	(b)
209	Miscellaneous foods and kindred products	(S)	(c)
28	Chemicals and allied products	2.9	(b)
281	Basic chemicals	(T)	(c)
282	Fibers, plastics, rubbers	(S)	(c)
284	Cleaning and toilet goods	(S)	(c)
289	Miscellaneous chemical products	(S)	(c)
29	Petroleum and coal products	1.0	-40
291	Petroleum refining	(S)	(c)
299	Petroleum and coal products, n.e.c	(S)	(c)
30	Rubber and plastics products, n.e.c	(T)	(D)
32	Stone, clay, and glass products	(T)	(c)
34	Fabricated metal products	(T)	(D)
343	Plumbing and heating, except electric	(T)	(D)
344	Structural metal products	(S)	(c)
35	Machinery, except electrical	4.0	-18
352	Farm machinery and equipment	(S)	(c)
353	Construction and like equipment	(T)	(D)
355	Special industry machinery	(S)	(c)
356	General industrial machinery	(S)	(c)
358	Service industry machines	(S)	(c)
359	Miscellaneous machinery	(T)	(c)
36	Electrical machinery	(S)	(c)
367	Electronic components	(S)	(c)
369	Electrical products, n.e.c	(S)	(c)
37	Transportation equipment	(V)	(D)
371	Motor vehicles and equipment	(S)	(c)
372	Aircraft and parts	(V)	(D)
375	Motorcycles, bicycles, and parts	(S)	(c)
38	Instruments and related products	(S)	(c)
	South Atlantic, total	1,041.9	12
20	Food and kindred products	16.3	34
202	Dairies	(S)	(c)
204	Grain mills	(T)	(D)
207	Candy and related products	(T)	(D)
209	Miscellaneous foods and kindred products	3.5	(b)
21	Tobacco manufactures	306.3	18
211	Cigarettes	120.2	11
212	Cigars	(S)	(c)
213	Chewing and smoking tobacco	(T)	(D)
214	Tobacco stemming and redrying	(Y)	(D)
26	Paper and allied products	106.0	5
261	Pulp mills	45.0	-2
262	Paper mills, except building	(U)	(D)
263	Paperboard mills	47.8	10
266	Building paper and board mills	(T)	(c)
28	Chemicals and allied products	258.1	10
281	Basic chemicals	67.2	-12
282	Fibers, plastics, rubbers	122.0	40

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	South Atlantic--Con.		
28	Chemicals and allied products--Con.		
283	Drugs	5.7	(b)
284	Cleaning and toilet goods	11.5	20
285	Paints and allied products	(T)	(c)
286	Gum and wood chemicals	15.2	-35
287	Agricultural chemicals	30.3	-2
289	Miscellaneous chemical products	(U)	(D)
29	Petroleum and coal products	(T)	(D)
291	Petroleum refining	(T)	(D)
295	Paving and roofing materials	(S)	(c)
30	Rubber and plastics products, n.e.c	6.5	-6
301	Tires and inner tubes	(T)	(D)
302	Rubber footwear	(S)	(c)
306	Rubber products, n.e.c	1.5	-33
307	Plastics products, n.e.c	1.8	12
32	Stone, clay, and glass products	11.8	41
321	Flat glass	(T)	(c)
322	Pressed and blown glassware	6.1	27
326	Pottery and related products	(S)	(c)
328	Cut stone and stone products	(S)	(c)
329	Nonmetallic mineral products	3.9	(b)
33	Primary metal industries	68.5	-33
331	Steel rolling and finishing	46.3	-37
333	Primary nonferrous metal	(T)	(D)
334	Secondary nonferrous metals	(S)	(c)
335	Nonferrous rolling and drawing	19.1	4
34	Fabricated metal products	28.1	42
341	Metal cans	(T)	(D)
342	Cutlery, hand tools, hardware	2.1	12
343	Plumbing and heating, except electric	2.0	48
344	Structural metal products	16.6	(b)
345	Screw machine products, bolts, etc	(S)	(c)
346	Metal stampings	3.7	41
348	Fabricated wire products, n.e.c	(S)	(c)
349	Fabricated metal products, n.e.c	(T)	(D)
35	Machinery, except electrical	98.5	(b)
352	Farm machinery and equipment	(T)	(D)
353	Construction and like equipment	(V)	(D)
354	Metalworking machinery	11.9	4
355	Special industry machinery	25.6	32
356	General industrial machinery	(T)	(D)
357	Office machines, n.e.c	(W)	(D)
358	Service industry machines	5.8	22
359	Miscellaneous machinery	(T)	(c)
36	Electrical machinery	65.1	(b)
361	Electric distribution products	8.2	(b)
362	Electric industrial apparatus	18.5	44
363	Household appliances	(T)	(D)
364	Lighting and wiring devices	2.3	7
366	Communication equipment	30.9	(b)
367	Electronic components	1.7	(b)
369	Electrical products, n.e.c	(T)	(D)
37	Transportation equipment	35.8	-25
371	Motor vehicles and equipment	13.8	-14
372	Aircraft and parts	20.0	-30
373	Ship and boat building	(T)	(D)
374	Railroad equipment	(S)	(c)
38	Instruments and related products	2.8	14
381	Scientific instruments	(S)	(c)
382	Mechanical measuring devices	(S)	(c)
384	Medical instruments and supplies	(T)	(c)
385	Ophthalmic goods	(S)	(c)
387	Watches, clocks, and watchcases	(S)	(c)
39 19	Miscellaneous manufacturing and ordnance and accessories	4.5	(b)
394	Toys and sporting goods	.9	(c)
395	Pens, pencils, and office supplies	(S)	(c)
396	Costume jewelry and notions	(S)	(c)
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	2.9	(b)
	Delaware, total	(V)	(D)
20	Food and kindred products	(S)	(D)
28	Chemicals and allied products	7.6	21
281	Basic chemicals	(T)	(D)
282	Fibers, plastics, rubbers	(T)	(c)
284	Cleaning and toilet goods	(T)	(D)
	South Atlantic--Con.		
	Delaware--Con.		
30	Rubber and plastics products, n.e.c	.9	(c)
306	Rubber products, n.e.c	(S)	(c)
307	Plastics products, n.e.c	(S)	(c)
33	Primary metal industries	(S)	(c)
34	Fabricated metal products	2.7	(b)
342	Cutlery, hand tools, hardware	(S)	(c)
343	Plumbing and heating, except electric	(S)	(c)
344	Structural metal products	(T)	(c)
346	Metal stampings	(S)	(c)
35	Machinery, except electrical	(S)	(c)
354	Metalworking machinery	(S)	(c)
355	Special industry machinery	(S)	(c)
358	Service industry machines	(S)	(c)
36	Electrical machinery	(S)	(c)
37	Transportation equipment	(S)	(c)
371	Motor vehicles and equipment	(S)	(c)
372	Aircraft and parts	(S)	(c)
38	Instruments and related products	(S)	(c)
	Maryland, total	145.2	-3
20	Food and kindred products	6.8	29
204	Grain mills	(S)	(c)
209	Miscellaneous foods and kindred products	(T)	(c)
26	Paper and allied products	(S)	(c)
28	Chemicals and allied products	21.0	4
281	Basic chemicals	6.7	20
282	Fibers, plastics, rubbers	(U)	(D)
283	Drugs	.4	37
284	Cleaning and toilet goods	(T)	(D)
285	Paints and allied products	(S)	(c)
287	Agricultural chemicals	(T)	(D)
289	Miscellaneous chemical products	(S)	(c)
29	Petroleum and coal products	(T)	(D)
30	Rubber and plastics products, n.e.c	3.5	-4
301	Tires and inner tubes	(T)	(D)
302	Rubber footwear	(S)	(c)
306	Rubber products, n.e.c	(S)	(c)
32	Stone, clay, and glass products	4.9	38
321	Flat glass	(S)	(c)
322	Pressed and blown glassware	(S)	(c)
326	Pottery and related products	(S)	(c)
329	Nonmetallic mineral products	(T)	(D)
33	Primary metal industries	44.3	-36
331	Steel rolling and finishing	(W)	(D)
333	Primary nonferrous metal	(T)	(D)
335	Nonferrous rolling and drawing	.2	(c)
34	Fabricated metal products	3.6	-21
341	Metal cans	(T)	(D)
343	Plumbing and heating, except electric	(S)	(c)
344	Structural metal products	(S)	(c)
346	Metal stampings	(T)	(D)
348	Fabricated wire products, n.e.c	(S)	(c)
349	Fabricated metal products, n.e.c	(S)	(c)
35	Machinery, except electrical	19.9	10
353	Construction and like equipment	(T)	(D)
354	Metalworking machinery	(T)	(D)
355	Special industry machinery	7.5	7
356	General industrial machinery	(S)	(c)
358	Service industry machines	2.7	4
359	Miscellaneous machinery	(T)	(c)
36	Electrical machinery	29.4	(b)
364	Lighting and wiring devices	(S)	(c)
366	Communication equipment	(W)	(D)
37	Transportation equipment	8.5	-30
371	Motor vehicles and equipment	(U)	(D)
372	Aircraft and parts	(S)	(c)
373	Ship and boat building	(T)	(D)
38	Instruments and related products	(S)	(c)
381	Scientific instruments	(S)	(c)
385	Ophthalmic goods	(S)	(c)
39 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars	Percent change 1963/1960
	South Atlantic--Con.		
	District of Columbia, total	(T)	(D)
	Virginia, total	233.8	12
20	Food and kindred products	(T)	(D)
21	Tobacco manufactures	124.9	8
211	Cigarettes	(X)	(D)
213	Chewing and smoking tobacco	(T)	(D)
214	Tobacco stemming and redrying	(X)	(D)
26	Paper and allied products	10.4	-19
261	Pulp mills	(U)	(D)
262	Paper mills, except building	.6	(c)
263	Paperboard mills	(T)	(D)
28	Chemicals and allied products	60.2	16
281	Basic chemicals	14.4	-28
282	Fibers, plastics, rubbers	42.8	46
283	Drugs	(S)	(c)
284	Cleaning and toilet goods	(S)	(c)
286	Gum and wood chemicals	(S)	(c)
287	Agricultural chemicals	(T)	(D)
30	Rubber and plastics products, n.e.c	1.4	2
306	Rubber products, n.e.c	.8	(c)
307	Plastics products, n.e.c	.6	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	(S)	(c)
334	Secondary nonferrous metals	(S)	(c)
335	Nonferrous rolling and drawing	(S)	(c)
34	Fabricated metal products	3.5	(b)
342	Cutlery, hand tools, hardware	(S)	(c)
343	Plumbing and heating, except electric	(S)	(c)
344	Structural metal products	(T)	(c)
345	Screw machine products, bolts, etc	(S)	(c)
348	Fabricated wire products, n.e.c	(S)	(c)
35	Machinery, except electrical	6.5	45
355	Special industry machinery	(T)	(c)
357	Office machines, n.e.c	(T)	(D)
358	Service industry machines	(T)	(D)
36	Electrical machinery	(V)	(D)
362	Electric industrial apparatus	(V)	(D)
366	Communication equipment	(T)	(D)
367	Electronic components	(S)	(c)
37	Transportation equipment	(S)	(c)
371	Motor vehicles and equipment	(S)	(c)
373	Ship and boat building	(S)	(c)
38	Instruments and related products	(S)	(c)
381	Scientific instruments	(S)	(c)
385	Ophthalmic goods	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
394	Toys and sporting goods	(S)	(c)
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	(S)	(c)
	West Virginia, total	118.3	4
21	Tobacco manufactures	(S)	(c)
28	Chemicals and allied products	77.9	20
281	Basic chemicals	35.3	-20
282	Fibers, plastics, rubbers	39.6	(b)
284	Cleaning and toilet goods	(T)	(c)
289	Miscellaneous chemical products	(S)	(c)
29	Petroleum and coal products	(S)	(c)
32	Stone, clay, and glass products	3.7	13
321	Flat glass	(S)	(c)
322	Pressed and blown glassware	3.1	4
326	Pottery and related products	(S)	(c)
33	Primary metal industries	20.8	-26
331	Steel rolling and finishing	4.0	(b)
333	Primary nonferrous metal	(S)	(c)
335	Nonferrous rolling and drawing	(V)	(D)
	South Atlantic--Con.		
	West Virginia--Con.		
34	Fabricated metal products	1.9	21
342	Cutlery, hand tools, hardware	(S)	(c)
343	Plumbing and heating, except electric	(S)	(c)
344	Structural metal products	(S)	(c)
346	Metal stampings	(S)	(c)
349	Fabricated metal products, n.e.c	(S)	(c)
35	Machinery, except electrical	(U)	(D)
352	Farm machinery and equipment	(T)	(D)
354	Metalworking machinery	(U)	(D)
36	Electrical machinery	4.3	-24
362	Electric industrial apparatus	(T)	(D)
364	Lighting and wiring devices	(T)	(D)
37	Transportation equipment	(S)	(c)
371	Motor vehicles and equipment	(S)	(c)
374	Railroad equipment	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	North Carolina, total	240.7	17
21	Tobacco manufactures	181.0	26
211	Cigarettes	(X)	(D)
214	Tobacco stemming and redrying	(X)	(D)
26	Paper and allied products	11.2	-11
261	Pulp mills	(T)	(D)
262	Paper mills, except building	(T)	(D)
263	Paperboard mills	(T)	(c)
28	Chemicals and allied products	9.7	14
281	Basic chemicals	(T)	(c)
282	Fibers, plastics, rubbers	7.7	(a)
283	Drugs	(S)	(c)
289	Miscellaneous chemical products	(S)	(c)
30	Rubber and plastics products, n.e.c	(S)	(c)
306	Rubber products, n.e.c	(S)	(c)
307	Plastics products, n.e.c	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	(S)	(c)
333	Primary nonferrous metal	(S)	(c)
335	Nonferrous rolling and drawing	(S)	(c)
34	Fabricated metal products	(U)	(D)
342	Cutlery, hand tools, hardware	(S)	(c)
344	Structural metal products	(U)	(D)
349	Fabricated metal products, n.e.c	(S)	(c)
35	Machinery, except electrical	10.1	35
355	Special industry machinery	8.3	49
356	General industrial machinery	(T)	(D)
357	Office machines, n.e.c	(S)	(c)
359	Miscellaneous machinery	(S)	(c)
36	Electrical machinery	10.6	-3
361	Electric distribution products	(T)	(D)
362	Electric industrial apparatus	(T)	(D)
363	Household appliances	.7	(c)
364	Lighting and wiring devices	(S)	(c)
366	Communication equipment	(S)	(c)
367	Electronic components	1.0	(c)
369	Electrical products, n.e.c	(T)	(D)
37	Transportation equipment	(S)	(c)
38	Instruments and related products	(S)	(c)
384	Medical instruments and supplies	(S)	(c)
387	Watches, clocks, and watchcases	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
396	Costume jewelry and notions	(S)	(c)
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	(S)	(c)
	South Carolina, total	41.7	25
20	Food and kindred products	(S)	(c)
21	Tobacco manufactures	(S)	(c)
26	Paper and allied products	(U)	(D)
263	Paperboard mills	(U)	(D)
266	Building paper and board mills	(T)	(c)

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	South Atlantic--Con.		
	South Carolina--Con.		
28	Chemicals and allied products	18.7	10
281	Basic chemicals	(U)	(D)
282	Fibers, plastics, rubbers	12.1	-19
283	Drugs	(S)	(c)
284	Cleaning and toilet goods	(S)	(c)
287	Agricultural chemicals	(T)	(c)
29	Petroleum and coal products	(S)	(c)
30	Rubber and plastics products, n.e.c	(S)	(c)
32	Stone, clay, and glass products	(T)	(D)
322	Pressed and blown glassware	(T)	(D)
326	Pottery and related products	(S)	(c)
329	Nonmetallic mineral products	(S)	(c)
34	Fabricated metal products	(T)	(c)
342	Cutlery, hand tools, hardware	(S)	(c)
346	Metal stampings	(S)	(c)
35	Machinery, except electrical	6.5	(D)
353	Construction and like equipment	(S)	(c)
354	Metalworking machinery	(S)	(c)
355	Special industry machinery	(U)	(D)
356	General industrial machinery	(S)	(c)
36	Electrical machinery	1.7	(c)
361	Electric distribution products	(S)	(c)
362	Electric industrial apparatus	(T)	(c)
363	Household appliances	(S)	(c)
366	Communication equipment	(S)	(c)
367	Electronic components	.4	(c)
38	Instruments and related products	(S)	(c)
384	Medical instruments and supplies	(S)	(c)
385	Ophthalmic goods	(S)	(c)
39 19	Miscellaneous manufacturing and ordnance and accessories	(T)	(D)
394	Toys and sporting goods	(S)	(c)
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	(T)	(D)
	Georgia, total	113.7	(a)
20	Food and kindred products	4.0	44
202	Dairies	(S)	(c)
204	Grain mills	(S)	(c)
209	Miscellaneous foods and kindred products	(T)	(c)
26	Paper and allied products	35.9	-1
261	Pulp mills	(V)	(D)
262	Paper mills, except building	(S)	(c)
263	Paperboard mills	14.3	13
266	Building paper and board mills	(S)	(c)
28	Chemicals and allied products	18.4	-17
281	Basic chemicals	(S)	(c)
282	Fibers, plastics rubbers	(S)	(c)
283	Drugs	(T)	(c)
284	Cleaning and toilet goods	(S)	(c)
285	Paints and allied products	(S)	(c)
286	Gum and wood chemicals	(U)	(D)
287	Agricultural chemicals	(S)	(c)
289	Miscellaneous chemical products	(T)	(D)
32	Stone, clay, and glass products	.3	(c)
322	Pressed and blown glassware	(S)	(c)
328	Cut stone and stone products	(S)	(c)
329	Nonmetallic mineral products	(S)	(c)
33	Primary metal industries	(T)	(D)
34	Fabricated metal products	6.1	(b)
343	Plumbing and heating, except electric	(S)	(c)
344	Structural metal products	(T)	(D)
346	Metal stampings	1.3	(c)
349	Fabricated metal products, n.e.c	(S)	(c)
35	Machinery, except electrical	14.4	(b)
352	Farm machinery and equipment	(T)	(D)
353	Construction and like equipment	(U)	(D)
355	Special industry machinery	3.4	(b)
356	General industrial machinery	(S)	(c)
358	Service industry machines	(S)	(c)
	South Atlantic--Con.		
	Georgia--Con.		
36	Electrical machinery	5.3	(b)
37	Transportation equipment	21.0	-36
371	Motor vehicles and equipment	(T)	(D)
372	Aircraft and parts	(V)	(D)
38	Instruments and related products	(S)	(c)
39 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
394	Toys and sporting goods	(S)	(c)
395	Pens, pencils, and office supplies	(S)	(c)
396	Costume jewelry and notions	(S)	(c)
	Florida, total	129.3	(b)
20	Food and kindred products	4.0	(b)
204	Grain mills	(S)	(c)
209	Miscellaneous foods and kindred products	(S)	(c)
21	Tobacco manufactures	(S)	(c)
26	Paper and allied products	39.7	21
261	Pulp mills	(V)	(D)
262	Paper mills, except building	(T)	(D)
263	Paperboard mills	20.3	5
28	Chemicals and allied products	44.7	3
281	Basic chemicals	(T)	(D)
282	Fibers, plastics, rubbers	(V)	(D)
283	Drugs	(S)	(c)
286	Gum and wood chemicals	4.8	-24
287	Agricultural chemicals	24.0	4
32	Stone, clay, and glass products	(S)	(c)
34	Fabricated metal products	3.0	(b)
341	Metal cans	(S)	(c)
342	Cutlery, hand tools, hardware	(S)	(c)
344	Structural metal products	1.5	(c)
346	Metal stampings	(S)	(c)
349	Fabricated metal products, n.e.c	(T)	(c)
35	Machinery, except electrical	(W)	(D)
355	Special industry machinery	(S)	(c)
357	Office machines, n.e.c	(W)	(D)
36	Electrical machinery	1.4	(c)
366	Communication equipment	(T)	(c)
367	Electronic components	(S)	(c)
37	Transportation equipment	3.8	(b)
371	Motor vehicles and equipment	(S)	(c)
372	Aircraft and parts	(T)	(c)
373	Ship and boat building	(S)	(c)
38	Instruments and related products	(S)	(c)
	East South Central, total	370.8	13
20	Food and kindred products	30.9	30
202	Dairies	(U)	(c)
204	Grain mills	(V)	(D)
209	Miscellaneous foods and kindred products	10.2	-13
21	Tobacco manufactures	.4	(c)
211	Cigarettes	(S)	(c)
212	Cigars	(S)	(c)
213	Chewing and smoking tobacco	(S)	(c)
26	Paper and allied products	36.0	14
261	Pulp mills	(W)	(D)
262	Paper mills, except building	(S)	(c)
263	Paperboard mills	(S)	(c)
266	Building paper and board mills	(T)	(D)
28	Chemicals and allied products	140.6	12
281	Basic chemicals	42.8	48
282	Fibers, plastics, rubbers	76.1	-9
283	Drugs	1.8	-1
284	Cleaning and toilet goods	(S)	(c)
285	Paints and allied products	(S)	(c)
286	Gum and wood chemicals	(U)	(D)
287	Agricultural chemicals	(T)	(c)
289	Miscellaneous chemical products	7.8	27

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	East South Central--Con.		
30	Rubber and plastics products, n.e.c.	11.8	-4
301	Tires and inner tubes	(V)	(D)
303	Reclaimed rubber	(S)	(c)
306	Rubber products, n.e.c.	(S)	(c)
307	Plastics products, n.e.c.	(T)	(c)
32	Stone, clay, and glass products	7.1	31
321	Flat glass	(T)	(c)
322	Pressed and blown glassware	(S)	(c)
329	Nonmetallic mineral products	4.2	33
33	Primary metal industries	29.7	-10
331	Steel rolling and finishing	20.5	(b)
333	Primary nonferrous metal	(T)	(D)
335	Nonferrous rolling and drawing	5.3	3
339	Primary metal industries, n.e.c.	(S)	(c)
34	Fabricated metal products	18.7	6
342	Cutlery, hand tools, hardware	2.9	36
343	Plumbing and heating, except electric	(S)	(c)
344	Structural metal products	10.5	(b)
346	Metal stampings	(S)	(c)
348	Fabricated wire products, n.e.c.	(S)	(c)
349	Fabricated metal products, n.e.c.	3.5	-2
35	Machinery, except electrical	47.7	31
352	Farm machinery and equipment	(U)	(D)
353	Construction and like equipment	4.6	40
354	Metalworking machinery	(S)	(c)
355	Special industry machinery	6.5	23
356	General industrial machinery	3.3	8
357	Office machines, n.e.c.	(V)	(D)
358	Service industry machines	9.9	37
359	Miscellaneous machinery	(T)	(D)
36	Electrical machinery	24.3	24
361	Electric distribution products	(S)	(c)
362	Electric industrial apparatus	2.1	20
363	Household appliances	13.1	9
364	Lighting and wiring devices	3.1	26
365	Radio and TV receiving equipment	(T)	(c)
366	Communication equipment	(S)	(c)
367	Electronic components	(T)	(D)
369	Electrical products, n.e.c.	(S)	(c)
37	Transportation equipment	15.1	16
371	Motor vehicles and equipment	12.5	7
372	Aircraft and parts	(T)	(c)
373	Ship and boat building	(S)	(c)
374	Railroad equipment	(S)	(c)
375	Motorcycles, bicycles, and parts	(S)	(c)
379	Transportation equipment, n.e.c.	(S)	(c)
38	Instruments and related products	(T)	(c)
382	Mechanical measuring devices	(S)	(c)
387	Watches, clocks, and watchcases	(S)	(c)
39 } 19	Miscellaneous manufacturing and ordnance and accessories	2.0	27
393	Musical instruments and parts	(S)	(c)
394	Toys and sporting goods	1.1	10
395	Pens, pencils, and office supplies	(S)	(c)
396	Costume jewelry and notions	(S)	(c)
	Kentucky, total	121.2	8
20	Food and kindred products	8.2	(b)
202	Dairies	(U)	(c)
204	Grain mills	(S)	(c)
209	Miscellaneous foods and kindred products	(T)	(D)
21	Tobacco manufactures	(S)	(c)
211	Cigarettes	(S)	(c)
212	Cigars	(S)	(c)
26	Paper and allied products	(T)	(D)
262	Paper mills, except building	(S)	(c)
266	Building paper and board mills	(T)	(D)
28	Chemicals and allied products	44.2	-6
281	Basic chemicals	(U)	(D)
282	Fibers, plastics, rubbers	36.5	-15
285	Paints and allied products	(S)	(c)
30	Rubber and plastics products, n.e.c.	(S)	(c)
306	Rubber products, n.e.c.	(S)	(c)
307	Plastics products, n.e.c.	(S)	(c)

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	East South Central--Con.		
	Kentucky--Con.		
32	Stone, clay, and glass products	4.7	7
322	Pressed and blown glassware	(S)	(c)
329	Nonmetallic mineral products	(T)	(D)
33	Primary metal industries	(T)	(D)
331	Steel rolling and finishing	2.0	(b)
335	Nonferrous rolling and drawing	(S)	(c)
339	Primary metal industries, n.e.c.	(S)	(c)
34	Fabricated metal products	3.8	(a)
342	Cutlery, hand tools, hardware	(S)	(c)
343	Plumbing and heating, except electric	(S)	(c)
344	Structural metal products	.3	(c)
346	Metal stampings	.6	(c)
348	Fabricated wire products, n.e.c.	(S)	(c)
349	Fabricated metal products, n.e.c.	(T)	(D)
35	Machinery, except electrical	31.4	32
352	Farm machinery and equipment	(T)	(D)
354	Metalworking machinery	(S)	(c)
355	Special industry machinery	3.3	48
356	General industrial machinery	2.2	25
357	Office machines, n.e.c.	(V)	(D)
358	Service industry machines	5.8	12
359	Miscellaneous machinery	(T)	(D)
36	Electrical machinery	14.9	10
361	Electric distribution products	(S)	(c)
362	Electric industrial apparatus	(S)	(c)
363	Household appliances	(V)	(D)
364	Lighting and wiring devices	1.3	-6
367	Electronic components	(T)	(D)
369	Electrical products, n.e.c.	(S)	(c)
37	Transportation equipment	(U)	(D)
371	Motor vehicles and equipment	(U)	(D)
374	Railroad equipment	(S)	(c)
38	Instruments and related products	(S)	(c)
382	Mechanical measuring devices	(S)	(c)
387	Watches, clocks, and watchcases	(S)	(c)
39 } 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Tennessee, total	114.8	-9
20	Food and kindred products	15.4	-6
204	Grain mills	(U)	(D)
209	Miscellaneous foods and kindred products	(U)	(D)
21	Tobacco manufactures	(S)	(c)
26	Paper and allied products	7.6	-18
261	Pulp mills	(U)	(D)
262	Paper mills, except building	(T)	(D)
263	Paperboard mills	(S)	(c)
266	Building paper and board mills	(S)	(c)
28	Chemicals and allied products	58.6	-1
281	Basic chemicals	20.2	5
282	Fibers, plastics, rubbers	36.5	-4
283	Drugs	(T)	(D)
287	Agricultural chemicals	(S)	(c)
289	Miscellaneous chemical products	(S)	(c)
30	Rubber and plastics products, n.e.c.	(U)	(D)
301	Tires and inner tubes	(U)	(D)
303	Reclaimed rubber	(S)	(c)
306	Rubber products, n.e.c.	(S)	(c)
307	Plastics products, n.e.c.	(S)	(c)
32	Stone, clay, and glass products	1.4	(c)
321	Flat glass	(T)	(c)
322	Pressed and blown glassware	(S)	(c)
329	Nonmetallic mineral products	(S)	(c)
33	Primary metal industries	(T)	(D)
331	Steel rolling and finishing	(S)	(c)
333	Primary nonferrous metal	(T)	(D)
335	Nonferrous rolling and drawing	(T)	(D)
339	Primary metal industries, n.e.c.	(S)	(c)
34	Fabricated metal products	3.2	(b)
342	Cutlery, hand tools, hardware	(T)	(D)
344	Structural metal products	(S)	(c)
349	Fabricated metal products, n.e.c.	(S)	(c)

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	East South Central--Con.		
	Tennessee--Con.		
35	Machinery, except electrical	6.4	3
352	Farm machinery and equipment	(T)	(D)
353	Construction and like equipment	(T)	(c)
355	Special industry machinery	(S)	(c)
356	General industrial machinery	(S)	(c)
358	Service industry machines	(T)	(c)
359	Miscellaneous machinery	(S)	(c)
36	Electrical machinery	5.8	(b)
362	Electric industrial apparatus	(T)	(D)
363	Household appliances	1.4	10
364	Lighting and wiring devices	(S)	(c)
365	Radio,and TV receiving equipment	(T)	(c)
366	Communication equipment	(S)	(c)
367	Electronic components	(S)	(c)
369	Electrical products, n.e.c	(S)	(c)
37	Transportation equipment	3.1	41
371	Motor vehicles and equipment	2.0	(b)
373	Ship and boat building	(S)	(c)
375	Motorcycles, bicycles, and parts	(S)	(c)
38	Instruments and related products	(T)	(c)
382	Mechanical measuring devices	(S)	(c)
387	Watches, clocks, and watchcases	(S)	(c)
39 19	Miscellaneous manufacturing and ordnance and accessories	1.1	(c)
393	Musical instruments and parts	(S)	(c)
394	Toys and sporting goods	(S)	(c)
395	Pens, pencils, and office supplies	(S)	(c)
	Alabama, total	74.9	44
20	Food and kindred products	.9	(b)
204	Grain mills	(S)	(c)
209	Miscellaneous foods and kindred products	(S)	(c)
26	Paper and allied products	4.1	-3
262	Paper mills, except building	(T)	(D)
263	Paperboard mills	(S)	(c)
28	Chemicals and allied products	24.5	(b)
281	Basic chemicals	15.1	(b)
282	Fibers, plastics, rubbers	(T)	(d)
285	Paints and allied products	(S)	(c)
287	Agricultural chemicals	(S)	(c)
289	Miscellaneous chemical products	(V)	(D)
30	Rubber and plastics products, n.e.c	(U)	(D)
301	Tires and inner tubes	(T)	(D)
307	Plastics products, n.e.c	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	23.5	41
331	Steel rolling and finishing	(V)	(D)
335	Nonferrous rolling and drawing	(T)	(c)
34	Fabricated metal products	3.9	(b)
343	Plumbing and heating, except electric	(S)	(c)
344	Structural metal products	3.3	(b)
346	Metal stampings	(S)	(c)
349	Fabricated metal products, n.e.c	(S)	(c)
35	Machinery, except electrical	7.2	(b)
352	Farm machinery and equipment	(S)	(c)
353	Construction and like equipment	1.0	(c)
355	Special industry machinery	(T)	(D)
356	General industrial machinery	(S)	(c)
358	Service industry machines	(T)	(D)
36	Electrical machinery	2.3	26
361	Electric distribution products	(S)	(c)
364	Lighting and wiring devices	(S)	(c)
367	Electronic components	(T)	(c)
369	Electrical products, n.e.c	(S)	(c)
37	Transportation equipment	(S)	(c)
371	Motor vehicles and equipment	(S)	(c)
372	Aircraft and parts	(S)	(c)
39 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	East South Central--Con.		
	Mississippi, total	59.8	56
20	Food and kindred products	6.4	34
202	Dairies	(S)	(c)
204	Grain mills	(T)	(D)
209	Miscellaneous foods and kindred products	(T)	(D)
26	Paper and allied products	(V)	(D)
261	Pulp mills	(V)	(D)
262	Paper mills, except building	(T)	(D)
28	Chemicals and allied products	13.4	(b)
281	Basic chemicals	(S)	(c)
282	Fibers, plastics, rubbers	(T)	(c)
283	Drugs	(S)	(c)
284	Cleaning and toilet goods	(S)	(c)
286	Gum and wood chemicals	(U)	(D)
287	Agricultural chemicals	(T)	(c)
32	Stone, clay, and glass products	(S)	(c)
34	Fabricated metal products	7.8	(b)
342	Cutlery, hand tools, hardware	(T)	(c)
344	Structural metal products	(U)	(D)
346	Metal stampings	(S)	(c)
35	Machinery, except electrical	2.8	-7
352	Farm machinery and equipment	(S)	(c)
353	Construction and like equipment	(T)	(D)
355	Special industry machinery	(S)	(c)
36	Electrical machinery	1.3	22
361	Electric distribution products	(S)	(c)
363	Household appliances	(S)	(c)
364	Lighting and wiring devices	(S)	(c)
366	Communication equipment	(S)	(c)
37	Transportation equipment	3.3	(b)
371	Motor vehicles and equipment	2.0	40
372	Aircraft and parts	(T)	(c)
379	Transportation equipment, n.e.c	(S)	(c)
39 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
393	Musical instruments and parts	(S)	(c)
396	Costume jewelry and notions	(S)	(c)
	West South Central, total	1,006.3	8
20	Food and kindred products	189.9	34
204	Grain mills	162.4	39
207	Candy and related products	(S)	(c)
209	Miscellaneous foods and kindred products	(V)	(D)
26	Paper and allied products	14.8	-1
262	Paper mills, except building	6.4	-8
263	Paperboard mills	8.0	4
28	Chemicals and allied products	316.0	-1
281	Basic chemicals	174.0	14
282	Fibers, plastics, rubbers	104.7	-13
283	Drugs	(S)	(c)
284	Cleaning and toilet goods	(S)	(c)
285	Paints and allied products	2.1	(b)
286	Gum and wood chemicals	(T)	(D)
287	Agricultural chemicals	6.8	-17
289	Miscellaneous chemical products	23.8	-24
29	Petroleum and coal products	253.7	21
291	Petroleum refining	235.9	22
295	Paving and roofing materials	(T)	(D)
299	Petroleum and coal products, n.e.c	(V)	(D)
30	Rubber and plastics products, n.e.c	(U)	(D)
301	Tires and inner tubes	6.5	(a)
306	Rubber products, n.e.c	(S)	(c)
307	Plastics products, n.e.c	(S)	(c)
32	Stone, clay, and glass products	4.5	(b)
321	Flat glass	(S)	(c)
322	Pressed and blown glassware	1.0	-8
326	Pottery and related products	(T)	(c)
329	Nonmetallic mineral products	(T)	(c)
33	Primary metal industries	65.4	-42
331	Steel rolling and finishing	1.4	-34
333	Primary nonferrous metal	57.1	-46

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	West South Central--Con.		
33	Primary metal industries--Con.		
334	Secondary nonferrous metals	(S)	(c)
335	Nonferrous rolling and drawing	(S)	(c)
336	Nonferrous foundries	(S)	(c)
339	Primary metal industries, n.e.c	(U)	(D)
34	Fabricated metal products	27.8	(b)
341	Metal cans	(S)	(c)
343	Plumbing and heating, except electric	(S)	(c)
344	Structural metal products	19.4	(b)
345	Screw machine products, bolts, etc	(S)	(c)
347	Metal services, n.e.c	(S)	(c)
348	Fabricated wire products, n.e.c	(S)	(c)
349	Fabricated metal products, n.e.c	7.3	36
35	Machinery, except electrical	82.7	-10
351	Engines and turbines	(S)	(c)
352	Farm machinery and equipment	(S)	(c)
353	Construction and like equipment	69.0	-18
354	Metalworking machinery	(S)	(c)
355	Special industry machinery	(T)	(D)
356	General industrial machinery	6.2	(b)
357	Office machines, n.e.c	(S)	(c)
358	Service industry machines	(T)	(D)
36	Electrical machinery	24.6	(b)
361	Electric distribution products	(S)	(c)
362	Electric industrial apparatus	(S)	(c)
364	Lighting and wiring devices	(S)	(c)
366	Communication equipment	15.1	(b)
367	Electronic components	(U)	(D)
369	Electrical products, n.e.c	(S)	(c)
37	Transportation equipment	15.1	(b)
371	Motor vehicles and equipment	(T)	(D)
372	Aircraft and parts	12.9	(b)
373	Ship and boat building	(S)	(c)
38	Instruments and related products	3.6	(b)
381	Scientific instruments	(T)	(c)
382	Mechanical measuring devices	(S)	(c)
383	Optical instruments and lenses	(S)	(c)
384	Medical instruments and supplies	(S)	(c)
387	Watches, clocks, and watchcases	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(T)	(c)
393	Musical instruments and parts	(S)	(c)
394	Toys and sporting goods	(S)	(c)
	Arkansas, total	44.2	41
20	Food and kindred products	31.7	38
204	Grain mills	(W)	(D)
209	Miscellaneous foods and kindred products	(S)	(c)
26	Paper and allied products	(T)	(D)
262	Paper mills, except building	(S)	(c)
263	Paperboard mills	(S)	(c)
28	Chemicals and allied products	(T)	(c)
281	Basic chemicals	(T)	(c)
289	Miscellaneous chemical products	(S)	(c)
29	Petroleum and coal products	(T)	(S)
30	Rubber and plastics products, n.e.c	.6	(c)
301	Tires and inner tubes	(S)	(c)
306	Rubber products, n.e.c	(S)	(c)
307	Plastics products, n.e.c	(S)	(c)
33	Primary metal industries	(T)	(D)
333	Primary nonferrous metal	(T)	(D)
336	Nonferrous foundries	(S)	(c)
34	Fabricated metal products	(S)	(c)
35	Machinery, except electrical	3.7	31
353	Construction and like equipment	(S)	(c)
356	General industrial machinery	(S)	(c)
357	Office machines, n.e.c	(S)	(c)
358	Service industry machines	(T)	(D)
36	Electrical machinery	(S)	(c)
362	Electric industrial apparatus	(S)	(c)
364	Lighting and wiring devices	(S)	(c)
	West South Central--Con.		
	Arkansas--Con.		
37	Transportation equipment	(S)	(c)
38	Instruments and related products	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	.6	(c)
393	Musical instruments and parts	(S)	(c)
394	Toys and sporting goods	(S)	(c)
	Louisiana, total	221.1	9
20	Food and kindred products	33.1	(b)
204	Grain mills	27.6	(b)
207	Candy and related products	(S)	(c)
209	Miscellaneous foods and kindred products	(T)	(D)
26	Paper and allied products	8.7	16
262	Paper mills, except building	(T)	(D)
263	Paperboard mills	(U)	(D)
28	Chemicals and allied products	72.6	-4
281	Basic chemicals	(W)	(D)
282	Fibers, plastics, rubbers	19.1	-34
285	Paints and allied products	(S)	(c)
286	Gum and wood chemicals	(T)	(D)
287	Agricultural chemicals	(S)	(c)
289	Miscellaneous chemical products	6.5	-36
29	Petroleum and coal products	70.7	18
291	Petroleum refining	(X)	(D)
299	Petroleum and coal products, n.e.c	(T)	(D)
32	Stone, clay, and glass products	1.0	-2
321	Flat glass	(S)	(c)
322	Pressed and blown glassware	(S)	(c)
326	Pottery and related products	(S)	(c)
329	Nonmetallic mineral products	(S)	(c)
33	Primary metal industries	(W)	(D)
34	Fabricated metal products	(T)	(D)
341	Metal cans	(S)	(c)
344	Structural metal products	(T)	(D)
349	Fabricated metal products, n.e.c	(T)	(c)
35	Machinery, except electrical	1.8	(b)
352	Farm machinery and equipment	(S)	(c)
353	Construction and like equipment	(S)	(c)
355	Special industry machinery	(S)	(c)
37	Transportation equipment	(S)	(c)
	Oklahoma, total	64.7	22
20	Food and kindred products	12.7	(D)
204	Grain mills	(V)	(b)
26	Paper and allied products	(S)	(c)
28	Chemicals and allied products	(S)	(c)
29	Petroleum and coal products	(V)	(D)
291	Petroleum refining	(V)	(D)
299	Petroleum and coal products, n.e.c	(S)	(c)
30	Rubber and plastics products, n.e.c	(U)	(D)
32	Stone, clay, and glass products	.8	-19
321	Flat glass	(S)	(c)
322	Pressed and blown glassware	(S)	(c)
33	Primary metal industries	(T)	(D)
34	Fabricated metal products	7.7	(b)
344	Structural metal products	(U)	(D)
348	Fabricated wire products, n.e.c	(S)	(c)
349	Fabricated metal products, n.e.c	(S)	(c)
35	Machinery, except electrical	15.1	6
353	Construction and like equipment	13.8	4
356	General industrial machinery	(T)	(c)
358	Service industry machines	(S)	(c)
36	Electrical machinery	(S)	(c)
37	Transportation equipment	(T)	(c)
38	Instruments and related products	(S)	(c)
381	Scientific instruments	(S)	(c)
387	Watches, clocks, and watchcases	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	West South Central--Con.		
	Texas, total	676.2	4
20	Food and kindred products	112.4	15
204	Grain mills	90.6	15
207	Candy and related products	(S)	(c)
209	Miscellaneous foods and kindred products	(V)	(D)
26	Paper and allied products	4.2	-30
262	Paper mills, except building	(T)	(D)
263	Paperboard mills	(T)	(D)
28	Chemicals and allied products	241.6	(a)
281	Basic chemicals	130.2	7
282	Fibers, plastics, rubbers	85.6	-6
283	Drugs	(S)	(c)
284	Cleaning and toilet goods	(S)	(c)
285	Paints and allied products	(T)	(c)
287	Agricultural chemicals	(U)	(D)
289	Miscellaneous chemical products	16.7	-18
29	Petroleum and coal products	169.0	19
291	Petroleum refining	155.0	18
295	Paving and roofing materials	(T)	(D)
299	Petroleum and coal products, n.e.c	(V)	(D)
30	Rubber and plastics products, n.e.c	(T)	(D)
301	Tires and inner tubes	(T)	(D)
306	Rubber products, n.e.c	(S)	(c)
307	Plastics products, n.e.c	(S)	(c)
32	Stone, clay, and glass products	2.7	(c)
322	Pressed and blown glassware	(S)	(c)
326	Pottery and related products	(T)	(c)
329	Nonmetallic mineral products	(S)	(c)
33	Primary metal industries	30.1	(b)
331	Steel rolling and finishing	1.4	-34
333	Primary nonferrous metal	22.0	(b)
334	Secondary nonferrous metals	(S)	(c)
335	Nonferrous rolling and drawing	(S)	(c)
339	Primary metal industries, n.e.c	(U)	(D)
34	Fabricated metal products	15.5	(b)
343	Plumbing and heating, except electric	(S)	(c)
344	Structural metal products	9.6	(b)
345	Screw machine products, bolts, etc	(S)	(c)
347	Metal services, n.e.c	(S)	(c)
349	Fabricated metal products, n.e.c	5.4	28
35	Machinery, except electrical	62.1	-15
351	Engines and turbines	(S)	(c)
352	Farm machinery and equipment	(S)	(c)
353	Construction and like equipment	53.8	-23
354	Metalworking machinery	(S)	(c)
355	Special industry machinery	(T)	(D)
356	General industrial machinery	5.0	(b)
357	Office machines, n.e.c	(S)	(c)
358	Service industry machines	(S)	(c)
36	Electrical machinery	23.3	(b)
361	Electric distribution products	(S)	(c)
366	Communication equipment	15.1	(b)
367	Electronic components	(U)	(D)
369	Electrical products, n.e.c	(S)	(c)
37	Transportation equipment	10.2	(b)
371	Motor vehicles and equipment	1.3	10
372	Aircraft and parts	(U)	(D)
373	Ship and boat building	(S)	(c)
38	Instruments and related products	3.5	(b)
381	Scientific instruments	(T)	(c)
382	Mechanical measuring devices	(S)	(c)
383	Optical instruments and lenses	(S)	(c)
384	Medical instruments and supplies	(S)	(c)
387	Watches, clocks, and watchcases	(S)	(c)
39}19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Mountain, total	136.0	37
20	Food and kindred products	5.6	16
204	Grain mills	(T)	(D)
209	Miscellaneous foods and kindred products	(S)	(c)
26	Paper and allied products	(T)	(D)
28	Chemicals and allied products	9.8	(b)
281	Basic chemicals	(T)	(D)
287	Agricultural chemicals	(U)	(D)
289	Miscellaneous chemical products	(T)	(D)
29	Petroleum and coal products	(S)	(c)
30	Rubber and plastics products, n.e.c	(T)	(D)
301	Tires and inner tubes	(S)	(c)
306	Rubber products, n.e.c	(T)	(D)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	57.7	33
331	Steel rolling and finishing	(U)	(D)
333	Primary nonferrous metal	(X)	(D)
335	Nonferrous rolling and drawing	(S)	(c)
34	Fabricated metal products	(T)	(c)
344	Structural metal products	(S)	(c)
349	Fabricated metal products, n.e.c	(T)	(c)
35	Machinery, except electrical	30.9	3
351	Engines and turbines	(S)	(c)
352	Farm machinery and equipment	(S)	(c)
353	Construction and like equipment	24.9	-4
356	General industrial machinery	(T)	(c)
357	Office machines, n.e.c	(T)	(c)
358	Service industry machines	(T)	(D)
359	Miscellaneous machinery	(S)	(c)
36	Electrical machinery	5.9	(b)
361	Electric distribution products	(T)	(c)
362	Electric industrial apparatus	(S)	(c)
364	Lighting and wiring devices	(S)	(c)
366	Communication equipment	(S)	(c)
367	Electronic components	(T)	(c)
37	Transportation equipment	6.7	(a)
371	Motor vehicles and equipment	(S)	(c)
372	Aircraft and parts	(U)	(D)
38	Instruments and related products	(T)	(c)
381	Scientific instruments	(T)	(c)
382	Mechanical measuring devices	(S)	(c)
39}19	Miscellaneous manufacturing and ordnance and accessories	(U)	(c)
394	Toys and sporting goods	(S)	(c)
398,399,19-	Miscellaneous manufactures and ordnance and accessories	(U)	(c)
	Montana, total	(V)	(D)
33	Primary metal industries	(V)	(D)
	Idaho, total	4.8	41
20	Food and kindred products	(S)	(c)
26	Paper and allied products	(T)	(D)
28	Chemicals and allied products	(T)	(D)
39}19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Wyoming, total	(S)	(c)
29	Petroleum and coal products	(S)	(c)
	Colorado, total	41.7	23
20	Food and kindred products	(T)	(D)
28	Chemicals and allied products	(U)	(D)
29	Petroleum and coal products	(S)	(c)
30	Rubber and plastics products, n.e.c	(T)	(D)
301	Tires and inner tubes	(S)	(c)
306	Rubber products, n.e.c	(T)	(D)
33	Primary metal industries	(U)	(D)
331	Steel rolling and finishing	(U)	(D)
333	Primary nonferrous metal	(S)	(c)
34	Fabricated metal products	(T)	(c)

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	Mountain--Con.		
	Colorado--Con.		
35	Machinery, except electrical	15.4	18
351	Engines and turbines	(S)	(c)
352	Farm machinery and equipment	(S)	(c)
353	Construction and like equipment	(V)	(D)
356	General industrial machinery	(S)	(c)
359	Miscellaneous machinery	(S)	(c)
36	Electrical machinery	3.6	(b)
361	Electric distribution products	(T)	(c)
362	Electric industrial apparatus	(S)	(c)
37	Transportation equipment	(S)	(c)
371	Motor vehicles and equipment	(S)	(c)
372	Aircraft and parts	(S)	(c)
	New Mexico, total	12.2	6
20	Food and kindred products	(S)	(c)
28	Chemicals and allied products	(T)	(D)
33	Primary metal industries	(V)	(D)
38	Instruments and related products	(S)	(c)
	Arizona, total	27.9	(b)
20	Food and kindred products	(S)	(c)
33	Primary metal industries	(U)	(D)
34	Fabricated metal products	(S)	(c)
35	Machinery, except electrical	(T)	(D)
357	Office machines, n.e.c	(T)	(c)
358	Service industry machines	(S)	(c)
36	Electrical machinery	(T)	(c)
364	Lighting and wiring devices	(S)	(c)
366	Communication equipment	(S)	(c)
367	Electronic components	(T)	(c)
37	Transportation equipment	(U)	(D)
38	Instruments and related products	(T)	(c)
39 } 19	Miscellaneous manufacturing and ordnance and accessories	(U)	(c)
	Utah, total	31.9	2
20	Food and kindred products	.7	(c)
204	Grain mills	(S)	(c)
30	Rubber and plastics products, n.e.c	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	(V)	(D)
331	Steel rolling and finishing	(S)	(c)
333	Primary nonferrous metal	(V)	(D)
35	Machinery, except electrical	(V)	(D)
353	Construction and like equipment	(V)	(D)
356	General industrial machinery	(S)	(c)
358	Service industry machines	(S)	(c)
36	Electrical machinery	(S)	(c)
	Nevada, total	(U)	(D)
28	Chemicals and allied products	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	(T)	(D)
333	Primary nonferrous metal	(T)	(D)
335	Nonferrous rolling and drawing	(S)	(c)
	Pacific, total	1,221.8	-5
20	Food and kindred products	133.6	11
202	Dairies	(V)	(D)
204	Grain mills	39.4	(b)
206	Sugar	(T)	(c)
207	Candy and related products	3.6	25
209	Miscellaneous foods and kindred products	27.5	42
	Pacific--Con.		
26	Paper and allied products	105.6	47
261	Pulp mills	58.7	49
262	Paper mills, except building	(V)	(D)
263	Paperboard mills	28.0	(b)
266	Building paper and board mills	(S)	(c)
28	Chemicals and allied products	54.8	-17
281	Basic chemicals	34.2	26
282	Fibers, plastics, rubbers	(U)	(D)
283	Drugs	1.9	-15
284	Cleaning and toilet goods	4.9	(b)
285	Paints and allied products	1.4	7
287	Agricultural chemicals	(S)	(c)
289	Miscellaneous chemical products	3.1	13
29	Petroleum and coal products	76.1	-8
291	Petroleum refining	(X)	(D)
295	Paving and roofing materials	(S)	(c)
30	Rubber and plastics products, n.e.c	6.8	19
301	Tires and inner tubes	3.1	5
303	Reclaimed rubber	(S)	(c)
306	Rubber products, n.e.c	2.8	7
307	Plastics products, n.e.c	(S)	(c)
32	Stone, clay, and glass products	9.2	40
322	Pressed and blown glassware	(S)	(c)
326	Pottery and related products	(T)	(c)
329	Nonmetallic mineral products	4.8	-19
33	Primary metal industries	78.8	-4
331	Steel rolling and finishing	17.4	-16
333	Primary nonferrous metal	46.9	-11
334	Secondary nonferrous metals	(S)	(c)
335	Nonferrous rolling and drawing	13.5	(b)
336	Nonferrous foundries	(S)	(c)
339	Primary metal industries, n.e.c	(S)	(c)
34	Fabricated metal products	27.5	21
341	Metal cans	4.8	-11
342	Cutlery, hand tools, hardware	4.4	4
343	Plumbing and heating, except electric	(T)	(D)
344	Structural metal products	8.0	(b)
345	Screw machine products, bolts, etc	3.4	(b)
348	Fabricated wire products, n.e.c	(S)	(c)
349	Fabricated metal products, n.e.c	4.1	-7
35	Machinery, except electrical	91.5	13
351	Engines and turbines	(S)	(c)
352	Farm machinery and equipment	1.8	(b)
353	Construction and like equipment	21.1	3
354	Metalworking machinery	(T)	(c)
355	Special industry machinery	16.8	34
356	General industrial machinery	25.5	23
357	Office machines, n.e.c	19.2	-2
358	Service industry machines	4.6	-1
359	Miscellaneous machinery	(S)	(c)
36	Electrical machinery	105.0	(b)
361	Electric distribution products	25.7	44
362	Electric industrial apparatus	6.2	(b)
363	Household appliances	(T)	(D)
364	Lighting and wiring devices	(T)	(D)
365	Radio and TV receiving equipment	(T)	(c)
366	Communication equipment	32.8	(b)
367	Electronic components	31.7	(b)
369	Electrical products, n.e.c	(S)	(c)
37	Transportation equipment	477.6	-27
371	Motor vehicles and equipment	25.6	-4
372	Aircraft and parts	449.8	-28
373	Ship and boat building	(S)	(c)
374	Railroad equipment	(T)	(D)
38	Instruments and related products	25.8	(b)
381	Scientific instruments	(V)	(c)
382	Mechanical measuring devices	6.9	12
383	Optical instruments and lenses	(T)	(D)
384	Medical instruments and supplies	3.7	36
386	Photographic equipment	(T)	(D)

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	Pacific--Con.		
39 } 19 }	Miscellaneous manufacturing and ordnance and accessories	18.3	33
393	Musical instruments and parts	(S)	(c)
394	Toys and sporting goods	2.7	43
395	Pens, pencils, and office supplies	(T)	(D)
396	Costume jewelry and notions	(S)	(c)
398, 399, 19-	Miscellaneous manufactures and ordnance and accessories	14.0	33
	Washington, total	219.5	-44
20	Food and kindred products	16.2	-6
202	Dairies	(S)	(c)
204	Grain mills	15.2	9
209	Miscellaneous foods and kindred products	(S)	(c)
26	Paper and allied products	71.2	(b)
261	Pulp mills	32.2	36
262	Paper mills, except building	14.2	33
263	Paperboard mills	24.8	(b)
28	Chemicals and allied products	(U)	(D)
281	Basic chemicals	(T)	(D)
289	Miscellaneous chemical products	(S)	(c)
29	Petroleum and coal products	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	42.0	12
331	Steel rolling and finishing	(S)	(c)
333	Primary nonferrous metal	39.5	1
335	Nonferrous rolling and drawing	(V)	(D)
34	Fabricated metal products	.3	(c)
342	Cutlery, hand tools, hardware	(S)	(c)
344	Structural metal products	(S)	(c)
35	Machinery, except electrical	6.2	48
353	Construction and like equipment	3.7	(b)
354	Metalworking machinery	(S)	(c)
355	Special industry machinery	(T)	(D)
358	Service industry machines	(S)	(c)
37	Transportation equipment	(X)	(D)
371	Motor vehicles and equipment	(T)	(D)
372	Aircraft and parts	(X)	(D)
374	Railroad equipment	(T)	(D)
	Oregon, total	44.1	8
20	Food and kindred products	7.2	22
204	Grain mills	(U)	(D)
209	Miscellaneous foods and kindred products	(T)	(D)
26	Paper and allied products	6.1	-19
261	Pulp mills	(S)	(c)
262	Paper mills, except building	(T)	(D)
263	Paperboard mills	(T)	(D)
266	Building paper and board mills	(S)	(c)
28	Chemicals and allied products	(S)	(c)
281	Basic chemicals	(S)	(c)
289	Miscellaneous chemical products	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	5.3	20
331	Steel rolling and finishing	(T)	(c)
333	Primary nonferrous metal	(T)	(D)
34	Fabricated metal products	(S)	(c)
342	Cutlery, hand tools, hardware	(S)	(c)
344	Structural metal products	(S)	(c)
	Pacific--Con.		
	Oregon--Con.		
35	Machinery, except electrical	4.0	28
353	Construction and like equipment	2.9	5
355	Special industry machinery	(S)	(c)
359	Miscellaneous machinery	(S)	(c)
36	Electrical machinery	(V)	(D)
37	Transportation equipment	(T)	(c)
371	Motor vehicles and equipment	(S)	(c)
373	Ship and boat building	(S)	(c)
38	Instruments and related products	(T)	(D)
	California, total	921.9	12
20	Food and kindred products	102.6	17
202	Dairies	21.0	(b)
204	Grain mills	(V)	(D)
206	Sugar	(T)	(D)
207	Candy and related products	3.6	25
209	Miscellaneous foods and kindred products	26.3	37
26	Paper and allied products	2.0	-20
262	Paper mills, except building	(T)	(D)
263	Paperboard mills	(S)	(c)
266	Building paper and board mills	(S)	(c)
28	Chemicals and allied products	48.7	-20
281	Basic chemicals	29.3	24
282	Fibers, plastics, rubbers	8.7	(b)
283	Drugs	1.9	-15
284	Cleaning and toilet goods	4.9	(b)
285	Paints and allied products	1.4	7
287	Agricultural chemicals	(S)	(c)
289	Miscellaneous chemical products	(T)	(D)
29	Petroleum and coal products	74.9	-9
291	Petroleum refining	(X)	(D)
295	Paving and roofing materials	(S)	(c)
30	Rubber and plastics products, n.e.c.	6.8	19
301	Tires and inner tubes	3.1	5
303	Reclaimed rubber	(S)	(c)
306	Rubber products, n.e.c.	2.8	7
307	Plastics products, n.e.c.	(S)	(c)
32	Stone, clay, and glass products	7.2	21
322	Pressed and blown glassware	(S)	(c)
326	Pottery and related products	(T)	(c)
329	Nonmetallic mineral products	(T)	(D)
33	Primary metal industries	21.4	-33
331	Steel rolling and finishing	13.7	-27
333	Primary nonferrous metal	(V)	(D)
334	Secondary nonferrous metals	(S)	(c)
335	Nonferrous rolling and drawing	(T)	(c)
336	Nonferrous foundries	(S)	(c)
339	Primary metal industries, n.e.c.	(S)	(c)
34	Fabricated metal products	26.7	24
341	Metal cans	4.8	-11
342	Cutlery, hand tools, hardware	4.2	18
343	Plumbing and heating, except electric	(T)	(D)
344	Structural metal products	7.4	(b)
345	Screw machine products, bolts, etc.	3.4	(b)
348	Fabricated wire products, n.e.c.	(S)	(c)
349	Fabricated metal products, n.e.c.	4.1	-7
35	Machinery, except electrical	80.4	11
351	Engines and turbines	(S)	(c)
352	Farm machinery and equipment	1.8	(b)
353	Construction and like equipment	14.5	-5
354	Metalworking machinery	(S)	(c)
355	Special industry machinery	13.1	40
356	General industrial machinery	25.5	22

See footnotes at end of table 1.

Table 2C.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY GEOGRAPHIC DIVISIONS AND STATES, AND BY SELECTED INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Division, State, and industry	1963 total (million dollars)	Percent change 1963/1960
	Pacific--Con.		
	California--Con.		
35	Machinery, except electrical--Con.		
357	Office machines, n.e.c.	19.2	-2
358	Service industry machines	(T)	(D)
359	Miscellaneous machinery	(S)	(c)
36	Electrical machinery	(X)	(D)
361	Electric distribution products	(V)	(D)
362	Electric industrial apparatus	6.2	(b)
363	Household appliances	2.1	27
364	Lighting and wiring devices	4.0	(b)
365	Radio and TV receiving equipment	2.1	(c)
366	Communication equipment	32.8	(b)
367	Electronic components	31.7	(b)
369	Electrical products, n.e.c.	(S)	(D)
37	Transportation equipment	413.9	9
371	Motor vehicles and equipment	(V)	(D)
372	Aircraft and parts	(Z)	(D)
38	Instruments and related products	(V)	(D)
381	Scientific instruments	11.7	(c)
382	Mechanical measuring devices	6.9	12
383	Optical instruments and lenses	(T)	(D)
384	Medical instruments and supplies	3.7	36
386	Photographic equipment	(S)	(c)
	Pacific--Con.		
	California--Con.		
39, 19	Miscellaneous manufacturing and ordnance and accessories	18.3	33
393	Musical instruments and parts	(S)	(c)
394	Toys and sporting goods	2.7	43
395	Pens, pencils, and office supplies	(T)	(D)
396	Costume jewelry and notions	(S)	(c)
399, 398, 19-	Miscellaneous manufactures and ordnance and accessories	14.0	33
	Alaska, total	(W)	(D)
26	Paper and allied products	(W)	(D)
	Hawaii, total	(V)	(D)
20	Food and kindred products	7.6	-20
26	Paper and allied products	(S)	(c)
29	Petroleum and coal products	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
34	Fabricated metal products	(S)	(c)
35	Machinery, except electrical	(S)	(c)

See footnotes at end of table 1.

Table 2D.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY PRINCIPAL STANDARD METROPOLITAN STATISTICAL AREAS AND BY MAJOR INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963

(The $11.0 billion in exports reported in this survey were made by establishments with 100 employees or more and exporting $25,000 or more in 1963. The $5.3 billion in exports not reported in the survey would be accounted for chiefly by purchasers whose intention to export was not known to the manufacturer. The entire cost of the exported products is counted here in the exporting industry or area. Much of the export value consists of materials and components produced in other industries and areas. For further information about the data, see the text)

Code	Area and major industry group	1963 total (million dollars)	Percent change 1963/1960
	Akron, Ohio, total	83.0	-2
28	Chemicals and allied products	7.8	-10
30	Rubber and plastics products, n.e.c.	38.6	-25
32	Stone, clay, and glass products	(T)	(D)
34	Fabricated metal products	(V)	(D)
35	Machinery, except electrical	10.0	32
36	Electrical machinery	(S)	(c)
37	Transportation equipment	(U)	(D)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Albany-Schenectady-Troy, N.Y., total	117.4	(b)
23	Apparel and related products	(S)	(c)
26	Paper and allied products	(T)	(D)
28	Chemicals and allied products	11.3	4
32	Stone, clay, and glass products	(T)	(D)
33	Primary metal industries	(S)	(c)
34	Fabricated metal products	(S)	(c)
35	Machinery, except electrical	(W)	(D)
36	Electrical machinery	(T)	(D)
37	Transportation equipment	(X)	(D)
38	Instruments and related products	(S)	(c)
	Allentown-Bethlehem-Easton, Pa.-N.J., total	61.5	5
20	Food and kindred products	(S)	(c)
28	Chemicals and allied products	(T)	(D)
33	Primary metal industries	(U)	(D)
	Allentown-Bethlehem-Easton, Pa.-N.J.--Con.		
34	Fabricated metal products	2.9	47
35	Machinery, except electrical	27.1	14
36	Electrical machinery	2.0	-15
37	Transportation equipment	(V)	(D)
39, 19	Miscellaneous manufacturing and ordnance and accessories	1.0	-17
	Atlanta, Ga., total	19.6	-26
20	Food and kindred products	(S)	(c)
28	Chemicals and allied products	(S)	(c)
31	Leather and leather products	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
36	Electrical machinery	(T)	(c)
37	Transportation equipment	(V)	(c)
	Baltimore, Md., total	92.7	-23
20	Food and kindred products	1.3	14
28	Chemicals and allied products	13.8	-8
29	Petroleum and coal products	(T)	(D)
30	Rubber and plastics products, n.e.c.	(S)	(c)
32	Stone, clay, and glass products	4.0	25
33	Primary metal industries	44.2	-36
34	Fabricated metal products	3.3	-20
35	Machinery, except electrical	13.9	15
36	Electrical machinery	5.5	-42
37	Transportation equipment	(T)	(D)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)

See footnotes at end of table 1.

Table 2D.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY PRINCIPAL STANDARD METROPOLITAN STATISTICAL AREAS AND BY MAJOR INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Area and major industry group	1963 total (million dollars)	Percent change 1963/1960
	Binghamton, N.Y.-Pa., total	20.8	(b)
28	Chemicals and allied products	(S)	(c)
31	Leather and leather products	(S)	(c)
33	Primary metal industries	(S)	(c)
35	Machinery, except electrical	(V)	(D)
36	Electrical machinery	(S)	(c)
37	Transportation equipment	(T)	(D)
38	Instruments and related products	(T)	(D)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(T)	(c)
	Birmingham, Ala., total	24.8	27
20	Food and kindred products	(S)	(c)
28	Chemicals and allied products	(T)	(D)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	19.6	23
34	Fabricated metal products	3.1	(b)
35	Machinery, except electrical	(S)	(c)
36	Electrical machinery	(S)	(c)
	Boston, Mass., total	168.4	(b)
20	Food and kindred products	.7	(c)
27	Printing and publishing	(T)	(D)
28	Chemicals and allied products	3.4	-19
30	Rubber and plastics products, n.e.c	6.2	11
31	Leather and leather products	7.0	42
32	Stone, clay, and glass products	.6	(c)
33	Primary metal industries	(S)	(c)
34	Fabricated metal products	7.5	(b)
35	Machinery, except electrical	41.8	(b)
36	Electrical machinery	72.5	(b)
37	Transportation equipment	(U)	(D)
38	Instruments and related products	16.1	(b)
39, 19	Miscellaneous manufacturing and ordnance and accessories	.5	(c)
	Bridgeport, Conn., total	81.7	(b)
28	Chemicals and allied products	(S)	(c)
30	Rubber and plastics products, n.e.c	(S)	(c)
32	Stone, clay, and glass products	(T)	(c)
33	Primary metal industries	4.3	(b)
34	Fabricated metal products	2.1	33
35	Machinery, except electrical	6.3	-4
36	Electrical machinery	8.2	24
37	Transportation equipment	(X)	(D)
38	Instruments and related products	1.7	-15
39, 19	Miscellaneous manufacturing and ordnance and accessories	(U)	(D)
	Buffalo, N.Y., total	117.8	-9
20	Food and kindred products	13.0	-43
26	Paper and allied products	(T)	(D)
28	Chemicals and allied products	13.4	-13
29	Petroleum and coal products	(T)	(D)
30	Rubber and plastics products, n.e.c	3.6	15
32	Stone, clay, and glass products	4.7	-6
33	Primary metal industries	16.8	(b)
34	Fabricated metal products	1.7	20
35	Machinery, except electrical	16.5	46
36	Electrical machinery	25.6	(b)
37	Transportation equipment	15.4	32
38	Instruments and related products	2.8	(b)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Canton, Ohio, total	39.2	7
30	Rubber and plastics products, n.e.c	(S)	(c)
33	Primary metal industries	9.2	-24
34	Fabricated metal products	4.5	49
35	Machinery, except electrical	22.6	12
36	Electrical machinery	(T)	(c)
38	Instruments and related products	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Chattanooga, Tenn.-Ga., total	20.9	-37
20	Food and kindred products	6.2	-33
22	Textile mill products	(S)	(c)
26	Paper and allied products	(T)	(D)
28	Chemicals and allied products	(U)	(D)
34	Fabricated metal products	(T)	(D)
	Chattanooga, Tenn.-Ga.--Con.		
35	Machinery, except electrical	1.2	-29
36	Electrical machinery	(S)	(c)
37	Transportation equipment	(S)	(c)
	Chicago, Ill., total	574.4	12
20	Food and kindred products	28.8	1
21	Tobacco manufactures	(S)	(c)
26	Paper and allied products	(T)	(c)
27	Printing and publishing	22.6	(b)
28	Chemicals and allied products	27.5	21
29	Petroleum and coal products	2.0	5
30	Rubber and plastics products, n.e.c	5.5	44
31	Leather and leather products	(S)	(c)
32	Stone, clay, and glass products	5.4	(b)
33	Primary metal industries	9.3	-30
34	Fabricated metal products	28.4	14
35	Machinery, except electrical	255.6	16
36	Electrical machinery	70.8	33
37	Transportation equipment	59.7	-33
38	Instruments and related products	32.9	6
39, 19	Miscellaneous manufacturing and ordnance and accessories	24.1	(b)
	Cincinnati, Ohio-Ky.-Ind., total	146.2	(b)
20	Food and kindred products	(T)	(D)
26	Paper and allied products	(S)	(c)
27	Printing and publishing	(T)	(D)
28	Chemicals and allied products	6.0	40
30	Rubber and plastics products, n.e.c	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	(T)	(D)
34	Fabricated metal products	2.1	24
35	Machinery, except electrical	18.4	-37
36	Electrical machinery	5.8	-17
37	Transportation equipment	105.3	(b)
38	Instruments and related products	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	1.5	-29
	Cleveland, Ohio, total	230.9	19
20	Food and kindred products	(T)	(D)
27	Printing and publishing	.4	(c)
28	Chemicals and allied products	19.8	24
29	Petroleum and coal products	(S)	(c)
30	Rubber and plastics products, n.e.c	1.4	22
32	Stone, clay, and glass products	(T)	(D)
33	Primary metal industries	25.7	-3
34	Fabricated metal products	12.7	-29
35	Machinery, except electrical	53.3	11
36	Electrical machinery	24.3	5
37	Transportation equipment	80.2	(b)
38	Instruments and related products	(U)	(D)
39, 19	Miscellaneous manufacturing and ordnance and accessories	1.4	-25
	Columbus, Ga.-Ala., total	2.3	25
22	Textile mill products	(S)	(c)
34	Fabricated metal products	(S)	(c)
35	Machinery, except electrical	(T)	(D)
	Dallas, Tex., total	53.9	(b)
20	Food and kindred products	17.4	1
28	Chemicals and allied products	(S)	(c)
30	Rubber and plastics products, n.e.c	(S)	(c)
33	Primary metal industries	(S)	(c)
34	Fabricated metal products	(S)	(c)
35	Machinery, except electrical	12.7	(b)
36	Electrical machinery	20.7	(b)
37	Transportation equipment	1.7	24
38	Instruments and related products	.3	(c)
	Dayton, Ohio, total	96.5	20
27	Printing and publishing	(S)	(c)
28	Chemicals and allied products	(S)	(c)
30	Rubber and plastics products, n.e.c	3.7	24
32	Stone, clay, and glass products	(S)	(c)
34	Fabricated metal products	.7	(c)
35	Machinery, except electrical	62.0	18

See footnotes at end of table 1.

Table 2D.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY PRINCIPAL STANDARD METROPOLITAN STATISTICAL AREAS AND BY MAJOR INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Area and major industry group	1963 total (million dollars)	Percent change 1963/1960
	Dayton, Ohio--Con.		
36	Electrical machinery	20.1	8
37	Transportation equipment	9.4	(b)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Denver, Colo., total	32.5	39
20	Food and kindred products	3.9	7
28	Chemicals and allied products	(U)	(D)
30	Rubber and plastics products, n.e.c.	(T)	(D)
33	Primary metal industries	(S)	(c)
34	Fabricated metal products	(T)	(c)
35	Machinery, except electrical	15.0	18
36	Electrical machinery	(T)	(c)
37	Transportation equipment	(S)	(c)
	Detroit, Mich., total	489.7	17
20	Food and kindred products	4.9	36
28	Chemicals and allied products	33.4	39
29	Petroleum and coal products	(S)	(c)
30	Rubber and plastics products, n.e.c.	2.0	1
32	Stone, clay, and glass products	6.5	43
33	Primary metal industries	26.2	-37
34	Fabricated metal products	16.1	(b)
35	Machinery, except electrical	105.1	32
36	Electrical machinery	1.5	8
37	Transportation equipment	291.4	15
38	Instruments and related products	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(T)	(c)
	Erie, Pa., total	50.3	-10
26	Paper and allied products	(S)	(c)
30	Rubber and plastics products, n.e.c.	(S)	(c)
33	Primary metal industries	.5	(c)
34	Fabricated metal products	3.7	38
35	Machinery, except electrical	5.8	-31
36	Electrical machinery	(U)	(D)
37	Transportation equipment	(W)	(D)
38	Instruments and related products	(T)	(D)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Flint, Mich., total	(X)	(D)
28	Chemicals and allied products	(S)	(c)
34	Fabricated metal products	(T)	(D)
37	Transportation equipment	(X)	(D)
	Forth Worth, Tex., total	24.5	42
20	Food and kindred products	(V)	(D)
28	Chemicals and allied products	(S)	(c)
29	Petroleum and coal products	(T)	(D)
34	Fabricated metal products	(S)	(c)
35	Machinery, except electrical	(S)	(c)
37	Transportation equipment	(U)	(D)
38	Instruments and related products	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Gary-Hammond-East Chicago, Ind., total	32.9	11
20	Food and kindred products	(T)	(D)
27	Printing and publishing	(S)	(c)
28	Chemicals and allied products	(T)	(D)
29	Petroleum and coal products	(T)	(D)
30	Rubber and plastics products, n.e.c.	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	18.3	18
34	Fabricated metal products	7.0	25
35	Machinery, except electrical	(S)	(c)
37	Transportation equipment	(T)	(D)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Grand Rapids, Mich., total	32.1	11
20	Food and kindred products	(S)	(c)
28	Chemicals and allied products	(T)	(D)
30	Rubber and plastics products, n.e.c.	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	(S)	(c)
34	Fabricated metal products	1.9	(b)
35	Machinery, except electrical	7.2	16
	Grand Rapids, Mich.--Con.		
36	Electrical machinery	(U)	(D)
37	Transportation equipment	9.7	46
38	Instruments and related products	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Greensboro-High Point, N.C., total	(V)	(D)
21	Tobacco manufactures	(V)	(D)
22	Textile mill products	(S)	(c)
28	Chemicals and allied products	(S)	(c)
34	Fabricated metal products	(S)	(c)
	Hartford, Conn., total	83.1	-30
22	Textile mill products	-	(c)
26	Paper and allied products	(T)	(D)
28	Chemicals and allied products	(T)	(c)
33	Primary metal industries	(S)	(c)
34	Fabricated metal products	3.1	(b)
35	Machinery, except electrical	20.2	2
36	Electrical machinery	2.9	33
37	Transportation equipment	(X)	(D)
38	Instruments and related products	1.0	-34
39, 19	Miscellaneous manufacturing and ordnance and accessories	1.8	-18
	Houston, Tex., total	238.6	4
20	Food and kindred products	43.9	22
26	Paper and allied products	(S)	(c)
28	Chemicals and allied products	66.6	-5
29	Petroleum and coal products	72.2	22
30	Rubber and plastics products, n.e.c.	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	7.3	10
34	Fabricated metal products	7.6	32
35	Machinery, except electrical	35.5	-22
36	Electrical machinery	(T)	(D)
37	Transportation equipment	(S)	(c)
38	Instruments and related products	(T)	(c)
	Indianapolis, Ind., total	64.5	20
20	Food and kindred products	(S)	(c)
26	Paper and allied products	(S)	(c)
28	Chemicals and allied products	(U)	(D)
30	Rubber and plastics products, n.e.c.	3.0	(c)
32	Stone, clay, and glass products	(S)	(c)
34	Fabricated metal products	.3	(c)
35	Machinery, except electrical	17.3	7
36	Electrical machinery	4.2	26
37	Transportation equipment	30.8	47
38	Instruments and related products	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Jersey City, N.J., total	43.8	-12
20	Food and kindred products	7.1	-24
26	Paper and allied products	(S)	(c)
27	Printing and publishing	-	(c)
28	Chemicals and allied products	8.5	-32
29	Petroleum and coal products	(U)	(D)
30	Rubber and plastics products, n.e.c.	(S)	(c)
31	Leather and leather products	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	1.8	(b)
34	Fabricated metal products	(T)	(D)
35	Machinery, except electrical	5.9	1
36	Electrical machinery	8.1	3
37	Transportation equipment	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	1.2	-5
	Kansas City, Mo.-Kans., total	31.2	6
20	Food and kindred products	14.6	(b)
27	Printing and publishing	(S)	(c)
28	Chemicals and allied products	(T)	(c)
29	Petroleum and coal products	(S)	(c)
32	Stone, clay, and glass products	(T)	(c)
33	Primary metal industries	(T)	(D)
34	Fabricated metal products	1.8	42
35	Machinery, except electrical	7.3	-33
36	Electrical machinery	2.6	(c)
37	Transportation equipment	(S)	(c)

See footnotes at end of table 1.

Table 2D.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY PRINCIPAL STANDARD METROPOLITAN STATISTICAL AREAS AND BY MAJOR INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Area and major industry group	1963 total (million dollars)	Percent change 1963/1960
	Lancaster, Pa., total	15.4	-36
20	Food and kindred products	(S)	(c)
21	Tobacco manufactures	(S)	(c)
28	Chemicals and allied products	(T)	(D)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	(S)	(c)
34	Fabricated metal products	1.4	-34
35	Machinery, except electrical	2.5	(b)
36	Electrical machinery	(T)	(D)
37	Transportation equipment	(S)	(c)
38	Instruments and related products	(S)	(c)
39 } 19 }	Miscellaneous manufacturing and ordnance and accessories	(T)	(D)
	Los Angeles-Long Beach, Calif., total	602.6	11
20	Food and kindred products	12.4	-6
26	Paper and allied products	(S)	(c)
27	Printing and publishing	(S)	(c)
28	Chemicals and allied products	18.3	-45
29	Petroleum and coal products	39.2	12
30	Rubber and plastics products, n.e.c.	5.0	31
32	Stone, clay, and glass products	1.1	-8
33	Primary metal industries	2.5	45
34	Fabricated metal products	17.0	44
35	Machinery, except electrical	49.8	1
36	Electrical machinery	21.8	(b)
37	Transportation equipment	400.6	9
38	Instruments and related products	20.9	(b)
39 } 19 }	Miscellaneous manufacturing and ordnance and accessories	13.1	48
	Louisville, Ky.-Ind., total	79.3	-6
20	Food and kindred products	(T)	(D)
21	Tobacco manufactures	(S)	(c)
28	Chemicals and allied products	38.5	-12
30	Rubber and plastics products, n.e.c.	(S)	(c)
32	Stone, clay, and glass products	(T)	(D)
33	Primary metal industries	(S)	(c)
34	Fabricated metal products	3.1	-9
35	Machinery, except electrical	13.6	7
36	Electrical machinery	11.0	7
37	Transportation equipment	(U)	(D)
39 } 19 }	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Memphis, Tenn.-Ark., total	28.0	7
20	Food and kindred products	5.8	17
26	Paper and allied products	(T)	(D)
28	Chemicals and allied products	8.7	14
30	Rubber and plastics products, n.e.c.	(U)	(D)
34	Fabricated metal products	(S)	(c)
35	Machinery, except electrical	(T)	(D)
36	Electrical machinery	(S)	(c)
37	Transportation equipment	(S)	(c)
39 } 19 }	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Milwaukee, Wis., total	148.3	18
20	Food and kindred products	3.5	-33
27	Printing and publishing	(S)	(c)
28	Chemicals and allied products	1.8	17
31	Leather and leather products	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	5.9	-11
34	Fabricated metal products	6.7	46
35	Machinery, except electrical	95.3	14
36	Electrical machinery	23.7	36
37	Transportation equipment	7.1	(b)
38	Instruments and related products	3.8	(b)
	Minneapolis-St. Paul, Minn., total	82.2	(b)
20	Food and kindred products	5.1	-18
26	Paper and allied products	(T)	(D)
27	Printing and publishing	(S)	(c)
28	Chemicals and allied products	(T)	(D)
29	Petroleum and coal products	(S)	(c)
30	Rubber and plastics products, n.e.c.	.8	(c)
33	Primary metal industries	(S)	(c)
34	Fabricated metal products	(S)	(c)
35	Machinery, except electrical	34.7	(b)
36	Electrical machinery	5.6	3
37	Transportation equipment	(S)	(c)
38	Instruments and related products	(W)	(D)
39 } 19 }	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	New Haven, Conn., total	9.6	15
20	Food and kindred products	(S)	(c)
28	Chemicals and allied products	(S)	(c)
30	Rubber and plastics products, n.e.c.	(T)	(D)
33	Primary metal industries	.8	(c)
34	Fabricated metal products	.6	(c)
35	Machinery, except electrical	.4	(c)
36	Electrical machinery	1.7	11
37	Transportation equipment	(S)	(c)
38	Instruments and related products	(T)	(D)
39 } 19 }	Miscellaneous manufacturing and ordnance and accessories	(T)	(D)
	New Orleans, La., total	54.6	1
20	Food and kindred products	3.5	-19
28	Chemicals and allied products	17.1	(b)
29	Petroleum and coal products	(T)	(D)
32	Stone, clay, and glass products	.8	(c)
33	Primary metal industries	(W)	(D)
34	Fabricated metal products	(S)	(c)
37	Transportation equipment	(S)	(c)
	New York, N.Y., total	340.6	18
20	Food and kindred products	22.2	-23
26	Paper and allied products	(S)	(c)
27	Printing and publishing	46.7	36
28	Chemicals and allied products	68.9	41
29	Petroleum and coal products	(T)	(D)
30	Rubber and plastics products, n.e.c.	1.5	5
32	Stone, clay, and glass products	(T)	(c)
33	Primary metal industries	7.3	-6
34	Fabricated metal products	6.1	40
35	Machinery, except electrical	27.8	1
36	Electrical machinery	46.4	31
37	Transportation equipment	61.8	-6
38	Instruments and related products	19.1	37
39 } 19 }	Miscellaneous manufacturing and ordnance and accessories	28.3	(b)
	Newark, N.J., total	184.8	16
20	Food and kindred products	1.4	(b)
22	Textile mill products	(S)	(c)
26	Paper and allied products	(S)	(c)
27	Printing and publishing	(S)	(c)
28	Chemicals and allied products	33.7	7
29	Petroleum and coal products	(V)	(D)
30	Rubber and plastics products, n.e.c.	2.3	45
31	Leather and leather products	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	14.6	14
34	Fabricated metal products	6.3	19
35	Machinery, except electrical	17.9	15
36	Electrical machinery	31.4	43
37	Transportation equipment	(X)	(D)
38	Instruments and related products	1.9	47
39 } 19 }	Miscellaneous manufacturing and ordnance and accessories	1.2	(c)
	Peoria, Ill., total	165.4	15
20	Food and kindred products	(S)	(c)
28	Chemicals and allied products	(S)	(c)
33	Primary metal industries	(S)	(c)
34	Fabricated metal products	(S)	(c)
35	Machinery, except electrical	164.8	15
	Philadelphia, Pa.-N.J., total	367.2	28
20	Food and kindred products	5.9	-16
21	Tobacco manufactures	.1	(c)
26	Paper and allied products	5.0	43
27	Printing and publishing	6.6	-43
28	Chemicals and allied products	66.7	23
29	Petroleum and coal products	45.1	4
30	Rubber and plastics products, n.e.c.	5.4	-10
31	Leather and leather products	(S)	(c)
32	Stone, clay, and glass products	1.8	1
33	Primary metal industries	16.7	-5
34	Fabricated metal products	21.1	20
35	Machinery, except electrical	113.6	(b)
36	Electrical machinery	42.3	49
37	Transportation equipment	15.3	-37
38	Instruments and related products	18.8	12
39 } 19 }	Miscellaneous manufacturing and ordnance and accessories	2.4	15

See footnotes at end of table 1.

Table 2D.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY PRINCIPAL STANDARD METROPOLITAN STATISTICAL AREAS AND BY MAJOR INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Area and major industry group	1963 total (million dollars)	Percent change 1963/1960
	Pittsburgh, Pa., total	210.1	6
20	Food and kindred products	(T)	(D)
28	Chemicals and allied products	15.6	4
29	Petroleum and coal products	(T)	(D)
30	Rubber and plastics products, n.e.c.	(S)	(c)
32	Stone, clay, and glass products	4.2	(b)
33	Primary metal industries	83.6	-7
34	Fabricated metal products	14.2	30
35	Machinery, except electrical	29.9	(b)
36	Electrical machinery	41.4	6
37	Transportation equipment	(U)	(D)
38	Instruments and related products	(U)	(D)
39}19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Portland, Oreg.-Wash., total	38.2	11
20	Food and kindred products	(T)	(D)
26	Paper and allied products	(T)	(D)
28	Chemicals and allied products	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	(U)	(D)
34	Fabricated metal products	(S)	(c)
35	Machinery, except electrical	3.9	30
36	Electrical machinery	(V)	(D)
37	Transportation equipment	1.0	27
38	Instruments and related products	(T)	(D)
	Providence-Pawtucket-Warwick, R.I.-Mass., total	21.4	23
20	Food and kindred products	(S)	(c)
28	Chemicals and allied products	(S)	(c)
29	Petroleum and coal products	(S)	(c)
30	Rubber and plastics products, n.e.c.	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	(T)	(D)
34	Fabricated metal products	.9	(c)
35	Machinery, except electrical	10.4	11
36	Electrical machinery	(S)	(c)
38	Instruments and related products	(T)	(D)
39}19	Miscellaneous manufacturing and ordnance and accessories	2.8	38
	Reading, Pa., total	17.8	15
20	Food and kindred products	(S)	(c)
28	Chemicals and allied products	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	3.4	9
34	Fabricated metal products	(S)	(c)
35	Machinery, except electrical	(U)	(D)
36	Electrical machinery	1.6	1
37	Transportation equipment	(T)	(D)
38	Instruments and related products	(S)	(c)
39}19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Rochester, N.Y., total	176.6	27
20	Food and kindred products	4.8	-6
27	Printing and publishing	(S)	(c)
28	Chemicals and allied products	(S)	(c)
30	Rubber and plastics products, n.e.c.	(T)	(D)
32	Stone, clay, and glass products	(S)	(c)
34	Fabricated metal products	(T)	(D)
35	Machinery, except electrical	24.7	-10
36	Electrical machinery	10.8	34
37	Transportation equipment	(T)	(D)
38	Instruments and related products	126.5	37
39}19	Miscellaneous manufacturing and ordnance and accessories	.4	(c)
	St. Louis, Mo.-Ill., total	66.6	9
20	Food and kindred products	7.2	26
21	Tobacco manufactures	(S)	(c)
26	Paper and allied products	(S)	(c)
27	Printing and publishing	(S)	(c)
28	Chemicals and allied products	19.5	20
32	Stone, clay, and glass products	5.1	(b)
33	Primary metal industries	4.1	39
34	Fabricated metal products	3.2	24
35	Machinery, except electrical	9.2	11
36	Electrical machinery	4.3	13
37	Transportation equipment	8.7	-43
38	Instruments and related products	2.6	(b)
39}19	Miscellaneous manufacturing and ordnance and accessories	(T)	(D)
	San Diego, Calif., total	7.4	(b)
28	Chemicals and allied products	(S)	(c)
35	Machinery, except electrical	(S)	(c)
36	Electrical machinery	2.6	(c)
37	Transportation equipment	(T)	(D)
39}19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	San Francisco-Oakland, Calif., total	108.3	-15
20	Food and kindred products	13.3	-40
26	Paper and allied products	(S)	(c)
28	Chemicals and allied products	17.3	11
29	Petroleum and coal products	35.2	-25
30	Rubber and plastics products, n.e.c.	(S)	(c)
31	Leather and leather products	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	6.6	-42
34	Fabricated metal products	4.4	15
35	Machinery, except electrical	8.6	-7
36	Electrical machinery	16.0	(b)
37	Transportation equipment	(U)	(D)
38	Instruments and related products	(S)	(c)
	San Jose, Calif., total	58.2	46
20	Food and kindred products	11.0	-2
26	Paper and allied products	(S)	(c)
27	Printing and publishing	(S)	(c)
28	Chemicals and allied products	(S)	(c)
30	Rubber and plastics products, n.e.c.	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	(S)	(c)
35	Machinery, except electrical	15.3	(b)
36	Electrical machinery	21.0	(b)
37	Transportation equipment	(T)	(D)
38	Instruments and related products	(T)	(D)
39}19	Miscellaneous manufacturing and ordnance and accessories	(T)	(D)
	Seattle-Everett, Wash., total	(X)	(D)
20	Food and kindred products	(U)	(D)
24	Lumber and wood products	(T)	(D)
26	Paper and allied products	10.0	(b)
28	Chemicals and allied products	(S)	(c)
33	Primary metal industries	(S)	(c)
34	Fabricated metal products	.3	(c)
35	Machinery, except electrical	(T)	(D)
37	Transportation equipment	(X)	(D)
	South Bend, Ind., total	29.0	17
30	Rubber and plastics products, n.e.c.	(S)	(c)
35	Machinery, except electrical	6.2	(b)
36	Electrical machinery	(S)	(c)
37	Transportation equipment	21.9	3
39}19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Springfield, Ill., total	37.7	10
20	Food and kindred products	(U)	(D)
35	Machinery, except electrical	(W)	(D)
36	Electrical machinery	(T)	(c)
	Syracuse, N.Y., total	45.5	32
20	Food and kindred products	1.4	-33
26	Paper and allied products	(S)	(c)
28	Chemicals and allied products	(U)	(D)
30	Rubber and plastics products, n.e.c.	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	(T)	(c)
34	Fabricated metal products	.9	43
35	Machinery, except electrical	19.1	(b)
36	Electrical machinery	12.6	23
37	Transportation equipment	2.6	22
39}19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Toledo, Ohio-Mich., total	87.0	-8
26	Paper and allied products	(S)	(c)
28	Chemicals and allied products	(T)	(D)
29	Petroleum and coal products	(T)	(D)
30	Rubber and plastics products, n.e.c.	(S)	(c)

See footnotes at end of table 1.

Table 2D.--VALUE OF EXPORTS OF MANUFACTURED PRODUCTS BY PRINCIPAL STANDARD METROPOLITAN STATISTICAL AREAS AND BY MAJOR INDUSTRY GROUPS, 1963; WITH PERCENT CHANGE, 1960 TO 1963--Continued

Code	Area and major industry group	1963 total (million dollars)	Percent change 1963/1960
	Toledo, Ohio-Mich.--Con.		
32	Stone, clay, and glass products	4.2	22
34	Fabricated metal products	1.3	(c)
35	Machinery, except electrical	8.2	(b)
36	Electrical machinery	(U)	(D)
37	Transportation equipment	(X)	(D)
38	Instruments and related products	(S)	(c)
	Trenton, N.J., total	13.9	27
21	Tobacco manufactures	(S)	(c)
26	Paper and allied products	(S)	(c)
28	Chemicals and allied products	2.6	22
30	Rubber and plastics products, n.e.c.	1.0	-1
32	Stone, clay, and glass products	.7	(c)
33	Primary metal industries	.5	(c)
34	Fabricated metal products	(T)	(D)
35	Machinery, except electrical	3.0	(b)
36	Electrical machinery	1.2	(c)
37	Transportation equipment	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Utica-Rome, N.Y., total	37.6	11
33	Primary metal industries	1.3	(c)
34	Fabricated metal products	(S)	(c)
35	Machinery, except electrical	(W)	(D)
36	Electrical machinery	(T)	(c)
37	Transportation equipment	(T)	(D)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(T)	(D)
	Waterbury, Conn., total	10.1	-12
28	Chemicals and allied products	(T)	(D)
30	Rubber and plastics products, n.e.c.	(S)	(c)
33	Primary metal industries	(S)	(c)
34	Fabricated metal products	.7	-17
35	Machinery, except electrical	2.3	-37
38	Instruments and related products	2.5	22
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Wichita, Kans., total	29.9	-2
20	Food and kindred products	(T)	(D)
28	Chemicals and allied products	(S)	(c)
29	Petroleum and coal products	(S)	(c)
34	Fabricated metal products	(T)	(D)
35	Machinery, except electrical	(S)	(c)
37	Transportation equipment	(V)	(D)
38	Instruments and related products	(S)	(c)
	Wilmington, Del.-N.J.-Md., total	45.8	26
20	Food and kindred products	(S)	(c)
28	Chemicals and allied products	(W)	(D)
30	Rubber and plastics products, n.e.c.	1.0	-16
31	Leather and leather products	(S)	(c)
33	Primary metal industries	(S)	(c)
34	Fabricated metal products	2.7	74
35	Machinery, except electrical	(S)	(c)
36	Electrical machinery	(S)	(c)
37	Transportation equipment	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	Worcester, Mass., total	37.0	-11
30	Rubber and plastics products, n.e.c.	(S)	(c)
32	Stone, clay, and glass products	(U)	(D)
33	Primary metal industries	1.9	21
34	Fabricated metal products	(S)	(c)
35	Machinery, except electrical	27.6	-15
38	Instruments and related products	(S)	(c)
39, 19	Miscellaneous manufacturing and ordnance and accessories	(S)	(c)
	York, Pa., total	38.5	37
21	Tobacco manufactures	(S)	(c)
28	Chemicals and allied products	(U)	(D)
29	Petroleum and coal products	(S)	(c)
32	Stone, clay, and glass products	(S)	(c)
33	Primary metal industries	(S)	(c)
34	Fabricated metal products	1.6	39
35	Machinery, except electrical	28.3	29
36	Electrical machinery	(S)	(c)
37	Transportation equipment	(S)	(c)
38	Instruments and related products	(T)	(c)
	Youngstown-Warren, Ohio, total	53.9	47
30	Rubber and plastics products, n.e.c.	(S)	(c)
31	Leather and leather products	(S)	(c)
32	Stone, clay, and glass products	(T)	(D)
33	Primary metal industries	20.1	25
34	Fabricated metal products	1.8	25
35	Machinery, except electrical	24.4	(b)
36	Electrical machinery	3.4	10
37	Transportation equipment	(T)	(c)

See footnotes at end of table 1.

Table 3.--PERCENT OF EXPORTS ACCOUNTED FOR BY THE 4, 8, AND 20 LARGEST COMPANIES BY SELECTED MAJOR INDUSTRY GROUP: 1963

Code	Major industry group	Export ratios					
		4 largest companies		8 largest companies		20 largest companies	
		Percent of reported exports	Percent of total exports, f.o.b.	Percent of reported exports	Percent of total exports, f.o.b.	Percent of reported exports	Percent of total exports, f.o.b.
26	Paper and allied products	44	31	60	42	81	57
28	Chemicals and allied products	29	21	40	29	58	42
29	Petroleum and coal products	59	59	71	71	93	93
30	Rubber and plastics products, n.e.c.	47	32	59	40	73	50
32	Stone, clay, and glass products	27	21	45	35	72	56
33	Primary metal industries	36	30	54	44	76	62
34	Fabricated metal products	17	12	23	16	36	26
35	Machinery, except electrical	21	16	30	23	46	35
36	Electrical machinery	33	27	43	35	56	46
37	Transportation equipment	51	41	69	56	86	70
38	Instruments and related products	41	25	50	30	68	40

[1]Companies were identified separately within each 2-digit group by combining the individual establishment data by company, by 2-digit SIC code.

Appendixes

Appendix A

COMPARABILITY OF CENSUSES OF MANUFACTURES IN TERMS OF THE VALUE ADDED MEASURE

It is doubtful whether any census could be kept fully comparable with one taken for an earlier period. Even if all systems of classification, such as the SIC, and definitions were identical and if the same procedures were employed in compiling the statistics, the changes in the structure of industry would introduce elements of noncomparableness. For example, a shift to the use of commercial services instead of the manufacturers' own labor force in performing some functions would affect the comparability of operating ratios such as output per man-hour associated with an industry.

The changes in definitions and procedures introduced in a census are described in the introductory text of the census volumes and historical data are revised where practical. (See Introductory text, Section 5.) Nevertheless, over long periods of time the comparableness of series will be significantly affected and the problems of revising historical data become difficult.

One way of displaying the problems connected with comparing the statistics from two censuses is to review the history of a single concept. For this example, value added by manufactures has been chosen. Currently, it is looked upon as the "best" additive measure of manufacturing activity provided by the census of manufactures. It is widely relied upon for comparative statistics by industry and by geographic location.

The phrase, "value added to materials by manufacturing processes," first appeared as a column heading in the census for 1904, where it was proposed as a measure suitable for comparing industries and areas. Earlier censuses had provided information on value of product and varying amounts of information on costs of materials, the two sets of figures which census analysts use to compute value added (table A). In connection with the census for 1869, costs of materials were subtracted from value of product for each industry but the difference, which was labeled "excess of product over materials," was used primarily to indicate variation among industries classified by the ratio of materials to employees and by the manner in which products were valued for census purposes.

This appendix was prepared by Frank H. Hanna, professor of economics, Duke University.

During the 19th century, interest centered chiefly in obtaining an aggregate which would reflect the growth of the American economy. In 1889, the subtraction of costs of materials from value of product was labeled, "net value of products." It was later criticized as a "statistical absurdity" unsuitable for measuring the growth of manufactures since the net value of products was made to appear less than the cost of materials. The census for 1899 proposed as a measure of growth the sum of "(1) the value of all *raw* materials which have entered this output; and (2) the entire value added to these raw materials by manufacturing processes," and, (3) the value of the partially fabricated materials imported "since their value is counted nowhere else."

The concern with the appropriate basis for the measurement of growth, and the desire to include within the measure all activities not explicitly included elsewhere, probably had its roots in the sparsity of available data. The census of manufactures was almost the only source of information on output and apparently there was a desire to make it as comprehensive as possible. It purported to cover output wherever it occurred—in factories, in the hand trades, in stores, and even in homes if the output was commercial—though the censuses for 1869 and later disclaimed an ability to obtain reliable statistics from the hand trades.

The census for 1899 devoted 77 pages of text to the emergence of a "factory system" and to formation of 185 "industrial combinations" or "trusts," consisting of 2,040 plants in 12 industrial groups and 36 States. All but eight of the "combinations" had been formed between 1890 and 1899. After 1899, the census was confined to the "factory system." Its frequency increased and emphasis shifted to the organization and structure of manufactures.

The formulation of net value of products as the sum of raw materials and value added had required that data be collected separately for raw materials and for fabricated materials and, as is shown in table A, data were obtained on many other expenses. The problem of allocating net value of products among industries and areas was discussed extensively in the census for 1899 but a satisfactory solution was not found. "Value added" was adopted, almost reluctantly, for this purpose in the census for 1904, but only the cost of materials consumed directly was subtracted from value of products to arrive at the value added used for that year. Materials consumed by the manufacturing process (e.g., mill supplies, fuels, etc.), but not embodied in the product, were not subtracted even though information on their magnitude was available in the census.

Table A.--Approaches to Value Added, Selected Census Years 1869 to 1958

[In millions of dollars. The entries are from the original reports for the years shown. Estimates adjusted for changes in the scope of manufactures are shown in table 1, General Summary. The exclusion of the hand trades and neighborhood operations from the 1899 census reduced the value added shown in this table by 44 percent; the adjustments for 1809 and later censuses were about 4 percent.]

	Item[1]	1869	1899	1904	1909	1919	1939	1947	1958
1	Value of product[2]	4,376	13,004	14,802	20,672	62,418	56,843	191,004	314,748
2	Cost of materials[3]	*2,503	-	-	*11,497	*35,730	*30,255	*113,246	*168,424
3	Raw	-	2,389	*3,141	-	-	-	-	-
4	Partly manufactured	-	*4,634	*4,918	-	-	-	-	-
5	Mill supplies	([4])	-	63	([4])	([4])	-	-	-
6	Freight, materials	-	([5])	57	*76	([6])	-	-	-
7	Fuels	([4])	322	308	*570	*1,646	*850	*2,377	*2,830
8	Electricity	-	-	-	-	-	*465	*955	*2,224
9	Rent: power and heat	-	-	17	([5])	([5])	-	-	-
10	Contract work	-	171	145	179	464	*589	*([7])	*([7])
11	Rent: factory and works	-	96	73	107	212	-	-	[8]1,411
12	Taxes paid	-	-	-	-	2,079	-	-	-
13	Federal excise	-	([9])	([9])	263	([10])	-	([7])	([7])
14	State and local	-	47	59	88	([10])	-	-	[8]1,450
15	Other expenses[11]	-	714	1,178	1,309	-	-	-	-
	Ordinary repairs:								
16	Wages and salaries of plant	-	-	-	-	-	-	-	[8]4,539
17	Purchased services	-	-	-	-	-	-	-	[8]4,472
	Supplements to wages and salaries:								
18	Social security	-	-	-	-	-	-	-	[8]1,335
19	Workmen's compensation	-	-	-	-	-	-	-	[8]501
20	Unemployment compensation	-	-	-	-	-	-	-	[8]762
21	Pensions and other	-	-	-	-	-	-	-	[8]3,376
22	Insurance	-	-	-	-	-	-	-	[8]667
23	Depreciation	-	-	-	-	-	-	-	[8]7,295
24	Cost of goods resold	-	-	-	-	-	-	([12])	*([12])
25	Value added by manufacture[13]	1,873	8,371	6,743	8,529	25,042	24,683	74,426	141,270

*Subtracted from value of product in computing value added by manufacture.

- Represents zero.

[1]Includes only items named in a request for separate information.

[2]For 1947, value of shipments; for 1958, value of shipments and miscellaneous receipts, sales of goods bought and resold without further manufacture, and changes in inventories of work in process and finished goods.

[3]Includes all materials consumed in the manufacture of products plus an increasingly comprehensive list of supplies consumed currently in the operation of the plant.

[4]Specifically mentioned as included in item 2, but not shown separately.

[5]Obtained separately but combined with item 7 for publication.

[6]Information requested but no mention of it was found in publication.

[7]Excluded from value of product and, thus, from value added. Data on excise taxes were obtained for 1947 and published as a memorandum item in the tables for industry, but have not been requested since 1947.

[8]Data were obtained in a sample survey conducted in connection with the census for 1958 and relate to 1957.

[9]Specifically mentioned as included in item 15.

[10]Items 13 and 14 were combined and requested as item 12.

[11]The instructions for 1899 and 1904 requested the inclusion of the following expenses: Federal excise taxes, rent of office and buildings, interest paid, insurance premiums paid, advertising, ordinary repairs of buildings and machinery, all other sundries. The instructions for 1909 modified this list by requesting the separate reporting of Federal excise taxes, dropping interest paid, and adding traveling expenses, royalties, use of patents.

[12]Published only for individual industries; total not shown for all industries.

[13]For 1869, labeled, "excess of value over materials;" for 1899, labeled, "net value of product."

The chief concern of those first deciding upon the appropriate definition of value added was to circumvent the problem discussed in most censuses under the heading, "Duplication in cost of materials and value of products." To them, it *must* have seemed undesirable to subtract from value of products anything not essential to reduce "duplication" to manageable proportions. The considerations which went into the decisions to subtract additional costs from value of products are incompletely recorded, but there is no doubt that such decisions were taken. By 1909, mill supplies and fuels, including rented heat and power, were subtracted. To this list were added purchased electricity in 1929, and the cost of contract work, partially in 1935, and fully in 1939. Beginning with the 1947 Census of Manufactures, Federal excise taxes were excluded from value of shipments and thus from value added by manufacture. In a special table in the 1954 Census of Manufactures (Volume I, General Summary, table 2B), the concept of adjusted value added was introduced. Value added by resales was added to standard value added by manufacture and the total further adjusted by the change in finished products and work-in-process inventories. During the 1955 to 1959 Annual Surveys of Manufactures, both adjusted and unadjusted value added were calculated for each industry. Since the 1958 census, only adjusted value added has been used.

While there was an increase in the range of costs subtracted from value of product in arriving at value added since 1869, there was also a curtailment of the *detailed information* obtained on costs. Why some items were dropped is not known precisely but *perhaps* the following information is relevant. The census reports contain testimony that difficulty had been experienced in collecting data on costs or expenses and that respondents had complained about the burden of providing such information. The reports also contain statements, with increasing emphasis, that *profits* could not be calculated from published figures; such statements also appear in the reports for 1899 and 1904, the years when maximum detail was requested. There may have been more effort by the Census Bureau to obtain data essential to a "key" measure, such as value added, than there was for data to be presented only as supplementary information. Too, the introduction, in 1921, of the biennial census of manufactures, coupled with uncertain and fluctuating appropriations, may have led to the adoption of a policy to concentrate on a minimum number of key measures. The appropriations for the census for 1933, for example, were too small even to cover the key measures.

It is not clear whether the inclusion of fuels and electricity in the value to be subtracted from value of product was simply to reduce "duplication" within the manufacturing sector or is evidence of a growing awareness of the contribution of other sectors to the value of manufactured product, a contribution that must be subtracted to arrive at value added by *manufacture.* During the opening decades of this century, coke and manufactured gas had a larger share of the fuels market and much of the electricity consumed by manufactures was produced in manufacturing plants. On the other hand, a continuous attempt was made from the early censuses to exclude transportation costs from the value of products and value added, by requesting that products be valued f.o.b. the plant and that materials costs include the cost of transporting them to the plant. Item 6, table A, was provided as "correction" to costs of materials which were reported exclusive of delivery costs.

Appendix B

INDUSTRY DESCRIPTIONS

This appendix contains descriptions of industries for which data were compiled and published in the 1963 Census of Manufactures. It also presents industry specialization and coverage ratios for 1963.

As published for 1963 and as presented in this appendix, the industry codes and descriptions are in accordance with the manufacturing division of the **Standard Industrial Classification Manual (SIC),** 1957 revised edition and amendments thereto, published by the Bureau of the Budget. The industry titles are those published in the SIC Manual; the descriptions are, likewise, generally as published in that manual but, for some industries, are expanded to include references to additional products primary to the industry or to related products classified in other industries. The descriptions also include remarks concerning changes in industry classification between the 1958 and 1963 censuses. (It should be noted that industry 3717, Motor Vehicles and Parts, is a Census industry combining three SIC industries: 3711, Motor Vehicles; 3712, Passenger Car Bodies; and 3714, Motor Vehicle Parts and Accessories.)

Industry classification of establishments, employed by the Bureau of the Census in the census of manufactures, as in other surveys, is in accordance with SIC principles. Thus, an establishment is classified into an industry on the basis of its primary activity, typically the value of products shipped. (A fuller treatment of the basis of industry classification of establishments will be found in the Introduction to this volume.) For industries, two measures have been developed which gage the homogeneity of the industrial classification: the primary product specialization ratio and the coverage ratio. To the right of each 4-digit industry title will be found the specialization ratio ("S") and the coverage ratio ("C") for 1963. These figures for 1963, as well as for 1958, may also be found in the general summary table 3 in this volume and in table 5A of the separate industry chapters in Volume II, "Industry Statistics," of the 1963 Census of Manufactures.

While establishments may manufacture and ship only products primary to the industry in which such establishments are classified, it is frequently the case that they also ship products secondary to that industry, that is, primary to other manufacturing industries. The **primary product specialization ratio** measures, within and for an industry, the proportion of the total value of products shipped, both primary and secondary, represented by primary products. (Dollar receipts for general contract work performed for others and miscellaneous receipts, such as for the sale of scrap, for nonmanufacturing type of repair work, merchandising of goods not processed in the industry, etc., are not considered in computing the specialization ratio.)

The **coverage ratio,** measured in terms of the value of shipments of primary products of an industry by all manufacturing industries, indicates the proportion shipped by the primary industry. In brief, to what extent the primary products of an industry are shipped by the industry in which such products are primary.

In general, the SIC standards require that a 4-digit industry have a minimum primary product specialization ratio of .80 and a coverage ratio of .70. Because of the diversity of manufactures, relatively few industries will show either specialization or coverage ratios of 1.00 (or 100, expressed in percentage terms). With respect to coverage, the structure of the classification will, in some situations, materially reduce the ratio. Within the classification, distinctions among industries are sometimes based on process or degree of integration. For example, industry 3316, Cold Rolled Sheet, Strip, and Bars, turns out products similar to some produced in industry 3312, Blast Furnaces, Steel Works and Rolling Mills. The difference in process is reflected in the situation that establishments classified in industry 3316 work from **purchased** materials (hot rolled sheet, hot rolled steel bars), whereas those in industry 3312, primarily steel works, typically work from materials **produced at the same facility.** Thus, the low coverage ratio (20 percent) shown for industry 3316 indicates chiefly those establishments which do not produce their own materials. Were the coverage ratio for industry 3316 based on shipments of primary products produced solely from purchased materials, that ratio would probably be close to 100 percent.

The few industries for which specialization and coverage ratios are not shown are generally those in which the figures, if published, would disclose data for individual companies, or the receipts were primarily from services rendered (contract work performed for others on their materials) but not distinguished by type of service. In addition, these ratios are not shown for industries having significant duplication of shipments within the industry except where such duplication could be approximated and eliminated from the calculation.

Major Group (2-digit) and Group (3-digit) specialization and coverage ratios were not developed for the 1963 Census. However, the computation of such ratios at these broader classification levels would involve procedures similar to those used in computing ratios at the 4-digit industry level. That is, at the 3-digit level the specialization ratio would be developed by considering as the "industry" all establishments whose 4-digit classification showed them to be in the same 3-digit Group. For this "industry" primary products would be those shipped by and classified as primary to that 3-digit Group; secondary products would be those shipped by the group but classified in other 3-digit manufacturing groups. Similarly, for the 2-digit Major Groups, the specialization ratio would be developed by considering as the "industry" those establishments classified in the same Major Group. Primary products of the Major Group would be those classified in the Major Group, and classified as secondary those shipped by the Major Group but classified in other manufacturing Major Groups.

See also the footnotes at the end of the appendix, describing special situations for specialization or coverage ratios for 4-digit industries for 1963.

SIC code — Industry title and description (S = Specialization ratio - C = Coverage ratio)

20 FOOD AND KINDRED PRODUCTS

This major group includes establishments manufacturing foods and beverages for human consumption, and certain related products, such as manufactured ice, chewing gum, vegetable and animal fats and oils, and prepared feeds for animals and fowls.

201 MEAT PRODUCTS:

2011 Meat Packing Plants (S-98; C-86).—Establishments primarily engaged in the slaughtering, for their own account or on a contract basis for the trade, of cattle, hogs, sheep, lambs, calves, horses, and other animals except small game, for meat to be sold or to be used on the same premises in canning and curing, and in making sausage, lard, and other products. Establishments primarily engaged in manufacturing sausages and meat specialties from purchased meats are classified in industry 2013; and establishments primarily engaged in killing, dressing, packing, and canning poultry, rabbits, and other small game in industry 2015.

Some slaughtering operations are conducted in establishments which are not included in the census of manufactures, such as those chiefly engaged in wholesale or retail trade, locker plant services, etc. A check of the 1958 Census of Manufactures records with those of the U.S. Department of Agriculture indicated that the census of manufactures included about 90 percent of the volume of commercial livestock slaughter. A similar comparison of the 1963 census slaughter statistics with those of the U.S.D.A. indicates that coverage of commercial slaughter is about at the same level.

2013 Sausages and Other Prepared Meat Products (S-94; C-38).—Establishments primarily engaged in manufacturing sausages, cured meats, smoked meats, canned meats, frozen meats, other prepared meats, and meat specialites, from purchased carcasses and other materials. Sausage kitchens and other prepared meat plants operated by packing houses as separate establishments also are included in this industry. Establishments primarily engaged in killing, dressing, and packing poultry, rabbits, and other small game, and those canning poultry are classified in industry 2015. Establishments primarily engaged in the cutting up and resale of purchased fresh carcasses are classified in trade industries.

Prepared meats manufactured in retail and independent wholesale establishments are not included in the census of manufactures.

2015 Poultry and Small Game Dressing and Packing, Wholesale (S-98; C-98).—Establishments primarily engaged in killing, dressing, packing, and canning poultry, rabbits, and other small game for their own account or on a contract basis for the trade. This industry also includes the drying, freezing, and breaking of eggs; but not the cleaning, oil treating, packing and grading of eggs which are classified in wholesale trade.

Poultry and small game killed and dressed at farms, hatcheries, frozen food lockers and wholesale and retail establishments are not included in manufacturing.

202 DAIRY PRODUCTS:

2021 Creamery Butter (S-69; C-77).—Establishments primarily engaged in manufacturing creamery butter.

This industry combined two industries that were separate under the previous classification system: industry 2022, Natural Cheese, and industry 2025, Special Dairy Products.

2022 Cheese, Natural and Processed (S-93; C-96).—Establishments primarily engaged in the manufacture of natural cheese (except cottage cheese), process cheese, cheese foods, and cheese spreads. Establishments primarily engaged in manufacturing cottage cheese are classified in industry 2026.

2023 Condensed and Evaporated Milk (S-80; C-66).—Establishments primarily engaged in manufacturing condensed and evaporated milk, and related products, including ice cream mix and ice milk mix made for sale as such.

2024 Ice Cream and Frozen Deserts (S-93; C-74).—Establishments primarily engaged in manufacturing ice cream and other frozen desserts.

2026 Fluid Milk (S-90; C-95).—Establishments primarily engaged in processing (pasteurizing, homogenizing, vitaminizing, bottling) and distributing fluid milk and cream, and related products.

203 CANNING AND PRESERVING FRUITS, VEGETABLES, AND SEAFOODS:

2031 Canned and Cured Seafoods (S-92; C-95).—Establishments primarily engaged in cooking and canning fish, shrimps, oysters, clams, crabs, and other seafoods; and those engaged in smoking, salting, drying, or otherwise curing fish for the trade. Establishments primarily engaged in shucking and packing fresh oysters in nonsealed containers, or freezing and packaging fresh fish are classified in industry 2036.

2032 Canned Specialties (S-80; C-91).—Establishments primarily engaged in canning specialty products, such as baby foods, "native foods," health foods, and soups, except seafood. Establishments primarily engaged in canning seafood soup are classified in industry 2031, and those primarily engaged in quick freezing canned specialties in industry 2037.

2033 Canned Fruits, Vegetables, Preserves, Jams, and Jellies (S-89; C-91).—Establishments primarily engaged in canning fruits and vegetables, and fruit and vegetable juices; and in manufacturing catsup and similar tomato sauces, preserves, jams, and jellies. Establishments primarily engaged in canning seafood soups are classified in industry 2031; and soups, except seafood, and baby foods in industry 2032.

2034 Dried and Dehydrated Fruits and Vegetables (S-96; C-89).—Establishments primarily engaged in sun drying or artifically dehydrating fruits, vegetables, and nuts, or in manufacturing packaged soup mixes from dehydrated ingredients. Establishments primarily engaged in the grading and marketing of farm dried fruits, such as prunes and raisins, are classified in trade industries.

2035 Pickled Fruits and Vegetables; Vegetable Sauces and Seasonings; Salad Dressings (S-79; C-82).—Establishments primarily engaged in pickling and brining fruits and vegetables and in manufacturing salad dressings, vegetable relishes, sauces, and seasonings. Establishments primarily engaged in manufacturing catsup and similar tomato sauces are classified in industry 2033, and those packing purchased pickles and olives in trade industries.

2036 Fresh or Frozen Packaged Fish (S-95; C-94). —Establishments primarily engaged in preparing fresh, and raw or cooked frozen packaged fish and other seafood. This industry also includes establishments primarily engaged in the shucking and packing of fresh oysters in nonsealed containers.

2037 Frozen Fruits, Fruit Juices, Vegetables and Specialties (S-89; C-89).—Establishments primarily engaged in quick freezing and cold packing (freezing) fruits, fruit juices, vegetables, and specialties. Excluded from this industry are establishments primarily engaged in packing fruits and vegetables for freezing but not freezing the product; cold storage warehouses freezing foods for others, frozen food locker and other establishments freezing for individual consumers or farms and ranches producing frozen fruits and vegetables. Establishments primarily freezing meats and poultry are included in Industry Group 201, Meat Products.

204 GRAIN MILL PRODUCTS:—Establishments in this group of industries frequently supplement their manufacturing activities with sales of grain and of commodities produced elsewhere. Such establishments were classified in manufacturing if at least 25

percent of their total receipts were from manufacturing activities, except for industry 2042, Prepared Feeds for Animals and Fowls, where it was required that receipts from manufacturing exceed receipts from merchandising. Most establishments which mixed some feed but did not meet these criteria were included in the 1963 Census of Business, except for some whose principal activity (e.g. custom milling) fell outside the scope of any of the 1963 economic censuses.

2041 Flour and Other Grain Mill Products (S-94; C-78).—This industry comprises establishments primarily engaged in milling flour or meal from grain, except rice (industry 2044). The products of flour mills may be sold plain or in the form of prepared mixes for specific purposes. Establishments primarily engaged in manufacturing prepared flour mixes from purchased ingredients are classified in industry 2045.

2042 Prepared Feeds for Animals and Fowls (S-96; C-93).—This industry comprises establishments primarily engaged in manufacturing prepared feeds for animals and fowls. Prepared feeds include poultry feed, livestock feed, dog food and other pet foods (canned, frozen, and dry). This industry also includes establishments primarily engaged in manufacturing certain feed ingredients and adjuncts, such as alfalfa meal, feed supplements, and feed concentrates. Mills primarily engaged in custom grinding of feeds or other agricultural services are excluded from the census of manufactures.

Substantial quantities of prepared feeds are mixed at locations which are not included in the census of manufactures, such as grain elevators, custom or grist mills, farm supply stores, chick hatcheries, commercial broiler raising establishments, and cattle-feeding operations.

2043 Cereal Preparations (S-80; C-86).—This industry comprises establishments primarily engaged in manufacturing cereal breakfast foods and related preparations. Establishments primarily engaged in manufacturing corn and hominy grits for human consumption are classified in industry 2041.

2044 Rice Milling (S-100; C-100).—This industry comprises establishments primarily engaged in cleaning and polishing rice, and in manufacturing rice flour or meal. Important products of this industry include brown rice, milled rice (including polished rice), rice polish, rice bran, and rice flour.

2045 Blended and Prepared Flour (S-78; C-62).—This industry comprises establishments primarily engaged in the preparation of blended flours and flour mixes from purchased flour (including flour transferred from flour mills owned by the same company). Important products of this industry include phosphated and self-rising flour and prepared flour mixes such as biscuit, cake, doughnut, and pancake mixes. Establishments making the same products from flour milled at the same location are classified in industry 2041. Prior to 1963, refrigerated doughs were not specifically listed on the report forms. The products usually were classified in either industry 2037, or industry 2099, depending upon the description of the refrigerated dough furnished by respondent.

2046 Wet Corn Milling (S-83; C-93).—This industry comprises establishments primarily engaged in milling corn or sorghum grain (milo) by the wet process, and producing starch, sirup, oil, sugar, and byproducts, such as gluten feed and meal. Establishments primarily engaged in manufacturing starch from other vegetable sources (potato, wheat, etc.) are also included. Establishments primarily engaged in manufacturing table sirups from corn sirup and other ingredients, and those manufacturing starch base dessert powders, are classified in industry 2099; those primarily engaged in manufacturing corn meal and grits are classified in industry 2041. Establishments primarily engaged in manufacturing laundry starches are classified in industry 2842.

205 BAKERY PRODUCTS:

2051 Bread and Other Bakery Products, Except Biscuit, Crackers, and Pretzels (S-98; C-99).—Establishments primarily engaged in manufacturing bread, cakes, and other "perishable" bakery products. Establishments primarily engaged in producing "dry" bakery products, such as biscuit, crackers, and pretzels are classified in industry 2052. Establishments producing bakery products primarily for direct sale on the premises to household consumers are classified in retail trade, industry 5462. Establishments manufacturing bakery products for sale primarily for home service delivery, or through one or more nonbaking retail outlets, are included in industry 2051.

2052 Biscuit, Crackers, and Pretzels (S-97; C-95).—Establishments primarily engaged in manufacturing biscuit (except raised biscuit), crackers, and similar "dry" bakery products. Establishments primarily engaged in producing "perishable" bakery products are classified in industry 2051.

206 SUGAR:

2061 Cane Sugar, Except Refining Only (S-99; C-100).—Establishments primarily engaged in manufacturing raw sugar, sirup, or finished (granulated or clarified) cane sugar from sugar cane. Establishments primarily engaged in refining sugar from purchased raw cane sirup or sugar sirups are classified in industry 2062.

2062 Cane Sugar Refining (S-100; C-100).—Establishments primarily engaged in refining purchased raw cane sugar and sugar sirup.

2063 Beet Sugar (S-100; C-100).—Establishments primarily engaged in manufacturing sugar from sugar beets.

207 CONFECTIONERY AND RELATED PRODUCTS:

2071 Candy and Other Confectionery Products (S-95; C-95).—Establishments primarily engaged in manufacturing candy, including chocolate candy, salted nuts, other confections and related products. Establishments primarily engaged in manufacturing solid chocolate bars are classified in industry 2072, and chewing gum in industry 2073. Establishments primarily engaged in manufacturing confectionery for direct sale on the premises and those primarily engaged in shelling and roasting nuts are classified in trade industries.

2072 Chocolate and Cocoa Products (S-99; C-82).—Establishments primarily engaged in shelling, roasting, and grinding cocoa beans for the purpose of making chocolate liquor, from which cocoa powder and cocoa butter are derived, and in the further manufacture of solid chocolate bars and chocolate coatings. Establishments primarily engaged in manufacturing products except candy from purchased chocolate and cocoa are classified in industry 2099, and chocolate candies in industry 2071.

2073 Chewing Gum (S-88; C-96).—Establishments primarily engaged in manufacturing chewing gum or chewing gum base.

208 BEVERAGES:

2082 Malt Liquors (S-100; C-100).—Establishments primarily engaged in manufacturing all kinds of malt liquors. Establishments primarily engaged in bottling purchased malt liquors are classified in trade industries.

2083 Malt (S-100; C-95).—Establishments primarily engaged in manufacturing malt or malt byproducts from barley or other grains.

2084 Wines, Brandy, and Brandy Spirits (S-98; C-99)[1].—Establishments primarily engaged in manufacturing wines, brandy, and brandy spirits. This industry also includes bonded storerooms which are engaged in blending wines. Establishments primarily bottling purchased wines, brandy and brandy spirits, but which do not manufacture wines and brandy are classified in trade industries.

2085 Distilled, Rectified, and Blended Liquors (S-98; C-99).—Establishments primarily engaged in manufacturing alcoholic liquors by distillation and rectification, and in manufacturing cordials and alcoholic cocktails by blending processes, or by mixing liquors and other ingredients. Establishments primarily engaged in manufacturing industrial alcohol are classified in industry 2818, and those only bottling purchased liquors in trade industries.

2086 Bottled and Canned Soft Drinks and Carbonated Waters (S-98; C-95).—Establishments primarily engaged in manufacturing soft drinks (nonalcoholic beverages) and carbonated waters. Establishments primarily engaged in manufacturing fruit and vegetable juices are classified in industry 2033, fruit sirups for flavoring in industry 2087, and cider in industry 2099. Establishments primarily engaged in bottling natural spring waters are classified in trade industries.

2087 Flavoring Extracts and Flavoring Sirups, N.E.C. (S-90; C-79).—Establishments primarily engaged in manufacturing flavoring extracts, sirups, and fruit juices, n.e.c., for soda fountain use or for the manufacture of soft drinks, and colors for bakers'

and confectioners' use. Establishments primarily engaged in manufacturing chocolate sirup are classified in industry 2072, and mixed or blended sweetening sirup and molasses in industry 2099.

209 MISCELLANEOUS FOOD PREPARATIONS AND KINDRED PRODUCTS:

2091 Cottonseed Oil Mills (S-89; C-91).—Establishments primarily engaged in manufacturing cottonseed oil, and byproduct cake, meal, and linters. Establishments primarily engaged in refining cottonseed oil into edible cooking oils are classified in industry 2096.

2092 Soybean Oil Mills (S-89; C-95).—Establishments primarily engaged in manufacturing soybean oil, and byproduct cake and meal. Establishments primarily engaged in refining soybean oil into edible cooking oils are classified in industry 2096.

2093 Vegetable Oil Mills, Except Cottonseed and Soybean (S-84; C-83).—Establishments primarily engaged in manufacturing vegetable oils and byproduct cake and meal, except cottonseed and soybean. Establishments primarily engaged in refining vegetable oils into edible cooking oils are classified in industry 2096, and those refining these oils for medicinal purposes in industry 2833.

2094 Animal and Marine Fats and Oils, Including Grease and Tallow (S-94; C-66).—Establishments primarily engaged in rendering inedible grease and tallow from animal fat, bone, and meat scraps, or in manufacturing animal oil, n.e.c., including fish oil and other marine animal oils, and byproduct meal. Establishments primarily engaged in refining marine animal oils for medicinal purposes are classified in industry 2833. Establishments primarily engaged in manufacturing fatty acids are classified in industry 2899. Establishments primarily engaged in manufacturing lard are classified in Industry Group 201.

This industry combined two industries that were separate under the previous classification system: industry 2094 and industry 2095.

2095 Roasted Coffee (S-90; C-99).—Establishments primarily engaged in the manufacture of roasted and concentrated coffee. Roasted coffee may be whole bean or ground. Concentrated coffee produced may be in either liquid or powdered form.

This is a new industry classification. Previously, roasted coffee was classified in industry 2099.

2096 Shortening, Table Oils, Margarine and Other Edible Fats and Oils, N.E.C. (S-88; C-89).—Establishments primarily engaged in manufacturing shortening, table oils, margarine, and other edible fats and oils, n.e.c., by further processing of animal and vegetable oils. Establishments primarily engaged in producing corn oil are classified in industry 2046.

2097 Manufactured Ice (S-99; C-100).—Establishments primarily engaged in manufacturing ice for sale. Ice plants operated by public utility companies are included in this industry. Establishments primarily engaged in manufacturing dry ice are classified in industry 2813, and the harvesting and storage of natural ice for sale in trade industries.

2098 Macaroni, Spaghetti, Vermicelli, and Noodles (S-96; C-94).—Establishments primarily engaged in manufacturing dry macaroni, spaghetti, vermicelli, and noodles. Establishments primarily engaged in manufacturing canned macaroni, spaghetti, etc., are classified in industry 2032.

2099 Food Preparations, N.E.C. (S-91; C-78).—Establishments primarily engaged in manufacturing prepared foods and miscellaneous specialties, n.e.c., such as baking powder, yeast, and other leavening compounds; desserts (ready-to-mix); sweetening sirups and molasses; vinegar and cider; chocolate and cocoa products, except confectionery, made from purchased chocolate; potato and corn chips, sticks, etc. (bagged or canned); and other food preparations not elsewhere classified.

The definition of this industry was changed from the previous definition. Roasted coffee was removed from this industry and is now separately defined as industry 2095.

21 TOBACCO MANUFACTURES

This major group includes establishments engaged in manufacturing cigarettes, cigars, smoking and chewing tobacco, and snuff, and in stemming and redrying tobacco. The manufacture of insecticides from tobacco byproducts is included in Major Group 28.

211 CIGARETTES:

2111 Cigarettes (S-97; C-100).—Establishments primarily engaged in the manufacture of cigarettes.

212 CIGARS:

2121 Cigars (S-100; C-100).—Establishments primarily engaged in the manufacture of cigars.

213 TOBACCO (CHEWING AND SMOKING) AND SNUFF:

2131 Tobacco (Chewing and Smoking)and Snuff (S-97; C-67).—Establishments primarily engaged in the manufacture of chewing and smoking tobacco and snuff.

214 TOBACCO STEMMING AND REDRYING:

2141 Tobacco Stemming and Redrying (S-100; C-100).—Establishments primarily engaged in the stemming and redrying of tobacco. Establishments which sell leaf tobacco as merchant wholesalers, agents, or brokers, and which also may be engaged in stemming tobacco are not included in this industry. Leaf tobacco warehouses which may be engaged in stemming tobacco are not included in this industry.

22 TEXTILE MILL PRODUCTS

This major group includes establishments engaged in performing any of the following operations: (1) preparation of fiber and subsequent manufacturing of yarn, thread, braids, twine, and cordage; (2) manufacturing broad woven fabric, narrow woven fabric, knit fabric, and carpets and rugs from yarn; (3) dyeing and finishing fiber, yarn, fabric, and knit apparel; (4) coating, waterproofing, or otherwise treating fabric; (5) the integrated manufacture of knit apparel and other finished articles from yarn; and (6) the manufacture of felt goods, lace goods, bonded-fiber fabrics, and miscellaneous textiles.

This classification makes no distinction between the two types of organizations which operate in the textile industry: (1) the "integrated" mill which purchases materials, produces textiles and related articles within the establishment, and sells the finished products; and (2) the "contract" or "commission" mill which processes materials owned by others. Converters or other nonmanufacturing establishments which assign materials to contract mills for processing (other than knitting) are classified in nonmanufacturing industries; establishments which assign yarns to outside contractors or commission knitters for the production of knit products are classified in Industry Group 225.

221 BROAD WOVEN FABRIC MILLS, COTTON:

2211 Broad Woven Fabric Mills, Cotton (S-92; C-80).—Establishments primarily engaged in weaving fabrics over 12 inches in width, wholly or chiefly of cotton. Establishments primarily engaged in weaving cotton carpets and rugs are classified in industry 2271; those tufting carpets and rugs in industry 2272; and those making tire cord and fabric in industry 2296.

In the product coding system for the 1963 Census of Manufactures, finished cotton fabrics and certain cotton fabricated products were classsified as primary to industry 2211 when made in weaving mills. Similar products made in non-weaving establishments were classified as primary to the appropriate industry; for example, sheets made in strictly cut-and-sew plants were classified as primary to industry 2392.

222 BROAD WOVEN FABRIC MILLS, MAN-MADE FIBER AND SILK:

2221 Broad Woven Fabric Mills, Man-Made Fiber and Silk (S-86; C-82).—Establishments primarily engaged in weaving fabrics over 12 inches in width, wholly or chiefly of silk and man-made fibers including glass. Establishments primarily engaged in weaving carpets and rugs from these fibers are classified in industry 2271; those tufting carpets and rugs from these fibers in industry 2272; and those making tire cord and fabric in industry 2296.

In the product coding system for the 1963 Census of Manufactures, finished synthetic and silk fabrics and blankets were classified as primary to industry 2221 when made in weaving mills. Similar products made in non-weaving establishments

were classified as primary to the appropriate industry; for example, synthetic fabrics finished in establishments engaged only in dyeing or printing were classified as primary to industry 2262.

223 BROAD WOVEN FABRIC MILLS, WOOL: INCLUDING DYEING AND FINISHING:

2231 Broad Woven Fabric Mills, Wool: Including Dyeing and Finishing (S-86; C-96).—Establishments primarily engaged in weaving fabrics over 12 inches in width, wholly or chiefly by weight of wool, mohair, or similar animal fibers; those dyeing and finishing woven wool fabrics or dyeing wool, tops, or yarn; and those shrinking and sponging wool goods for the trade. Establishments primarily engaged in weaving wool carpets and rugs are classified in industry 2271, and those tufting wool carpets and rugs in industry 2272.

224 NARROW FABRICS AND OTHER SMALLWARES MILLS: COTTON, WOOL, SILK, AND MAN-MADE FIBER:

2241 Narrow Fabrics and Other Smallwares Mills: Cotton, Wool, Silk, and Man-Made Fiber (S-91; C-97).—Establishments primarily engaged in weaving or braiding fabrics 12 inches or narrower in width of cotton, wool, silk, and man-made fibers, including glass fibers. Establishments primarily engaged in weaving or braiding fabrics 12 inches or narrower in width of fabric-covered elastic yarn are also included in this industry.

225 KNITTING MILLS:

2251 Women's Full-Length and Knee-Length Hosiery, Seamless and Full-Fashioned (S-96; C-94)[1].—Establishments primarily engaged in knitting, dyeing, or finishing women's and misses' full-length and knee-length hosiery, both seamless and full-fashioned.

This new industry definition represents a substantial revision from the classification system used in 1958. Prior to 1963, industry 2251 included establishments primarily engaged in production of full-fashioned hosiery, while industry 2252 consisted of establishments engaged primarily in the production of seamless (circular knit) hosiery. For 1963, the classifications for hosiery mills were revised to include in 2251 those mills primarily engaged in producing women's and misses' hosiery, except socks, and in 2252 mills engaged in producing all other hosiery.

2252 Hosiery, Except Women's Full-Length and Knee-Length Hosiery (S-91; C-96).—Establishments primarily engaged in knitting, dyeing, or finishing hosiery, except women's and misses' full-length and knee-length seamless and full-fashioned hosiery. See definition of industry 2251, above, for revision of the SIC for this industry as of 1963.

2253 Knit Outerwear Mills (S-92; C-97).—Establishments primarily engaged in knitting outerwear from yarn, or in manufacturing outerwear from knit fabric produced in the same establishment. Establishments primarily engaged in hand knitting outerwear for the trade are included in this industry. Establishments primarily engaged in manufacturing woven or purchased knit fabric gloves and mittens are classified in industry 2381, and those manufacturing outerwear from purchased knit fabric in Major Group 23.

2254 Knit Underwear Mills (S-89; C-91).—Establishments primarily engaged in knitting underwear and nightwear from yarn, or in manufacturing underwear and nightwear from knit fabric produced in the same establishment. Establishments primarily engaged in manufacturing underwear and nightwear from purchased knit fabric are classified in Major Group 23.

2256 Knit Fabric Mills (S-95; C-93).—Establishments primarily engaged in knitting tubular or flat fabric, and in dyeing or finishing knit fabric.

2259 Knitting Mills, N.E.C. (S-93; C-86).—Establishments primarily engaged in knitting gloves and other articles, n.e.c. Establishments primarily engaged in cutting and sewing dress, semi-dress, and work gloves and mittens from purchased knit fabrics are classified in industry 2381.

226 DYEING AND FINISHING TEXTILES, EXCEPT WOOL FABRICS AND KNIT GOODS:

2261 Finishers of Broad Woven Fabrics of Cotton (S-81; C60[2]).—Establishments primarily engaged in finishing purchased cotton broad woven fabrics, or finishing such fabrics on a commission basis. These finishing operations include bleaching, dyeing, printing (roller, screen, flock, plissé), and other mechanical finishing such as preshrinking, calendering and napping. This industry also includes the shrinking and sponging of cloth for the trade, and the chemical finishing for water-repellency, fire-resistance, and mildew-proofing. Establishments primarily engaged in finishing wool broad woven fabrics are classified in industry 2231; knit goods in Industry Group 225; and those coating or impregnating fabrics in industry 2295.

2262 Finishers of Broad Woven Fabrics of Man-Made Fiber and Silk (S-91; C-46[3]).—Establishments primarily engaged in finishing purchased man-made fiber and silk broad woven fabrics or finishing such fabrics on a commission basis. These finishing operations include bleaching, dyeing, printing (roller, screen, flock, plissé); and other mechanical finishing such as preshrinking, calendering, and napping. Establishments primarily engaged in finishing wool broad woven fabrics are classified in industry 2231; knit goods in Industry Group 225; and those coating or impregnating fabrics in industry 2295.

2269 Dyeing and Finishing Textiles, N.E.C. (S-89; C-64[4]).—Establishments primarily engaged in dyeing and finishing textiles, n.e.c., such as bleaching, dyeing, printing, and finishing of raw stock, yarn, braided goods, and narrow fabrics, except wool. These establishments perform finishing operations on purchased textiles or on a commission basis.

227 FLOOR COVERING MILLS:

2271 Woven Carpets and Rugs (S-77; C-92).—Establishments primarily engaged in weaving carpets and rugs from any textile yarn. Important products of this industry include Axminster, Wilton, velvet, chenille, and similar woven carpets and rugs; and woven automobile and aircraft floor coverings.

2272 Tufted Carpets and Rugs (S-96; C-96).—Establishments primarily engaged in tufting carpets and rugs from any textile fiber. Important products of this industry include tufted carpets, rugs, scatter rugs, and bathmats and bathmat sets except terry woven. Finishers of these products also are included in this industry.

2279 Carpets, Rugs and Mats, N.E.C. (S-89; C-46).—Establishments primarily engaged in manufacturing rugs, carpets, art squares, floor mattings, door mats and mattings from twisted paper, grasses, reeds, coir, sisal, jute or rags. Establishments primarily engaged in manufacturing hard-surface floor coverings, except rubber and cork, are classified in industry 3982.

228 YARN AND THREAD MILLS:

2281 Yarn Spinning Mills, Cotton, Man-Made Fibers, and Silk (S-96; C-83).—Establishments primarily engaged in spinning yarn wholly or chiefly by weight of cotton, man-made fiber staple, or silk staple. Establishments primarily engaged in dyeing or finishing purchased yarns or finishing yarns on a commission basis are classified in industry 2269.

2282 Yarn Throwing, Twisting, and Winding Mills, Cotton, Man-Made Fibers and Silk (S-95; C-87).—Establishments primarily engaged in throwing, twisting, winding, or spooling yarn wholly or chiefly by weight of cotton, man-made fibers, or silk. Establishments primarily engaged in dyeing or finishing purchased yarns or finishing yarns on a commission basis are classified in industry 2269.

2283 Yarn Mills, Wool, Including Carpet and Rug Yarn (S-85; C-82).—Establishments primarily engaged in spinning, twisting, winding, or spooling yarn (including carpet and rug yarn) wholly or chiefly by weight of wool, mohair, or similar animal fibers. Establishments primarily engaged in dyeing or finishing purchased yarn or finishing yarn on a commission basis are classified in industry 2231.

2284 Thread Mills (S-93; C-90).—Establishments primarily engaged in manufacturing thread from natural or man-made fiber except flax (industry 2299) and wool (industry 2283). Important products of this industry include sewing, crochet, darning, embroidery, tatting, hand knitting, and other handicraft threads.

229 MISCELLANEOUS TEXTILE GOODS:

2291 Felt Goods, Except Woven Felts and Hats (S-86; C-88).—Establishments primarily engaged in manufacturing pressed felt, regardless of fiber, by means of heat, moisture, and pressure; and those making punched felt for rugs, cushions, and other products from hair, jute, wool, or other fibers by the needle loom process. Establishments primarily engaged in

manufacturing woven wool felts and wool haircloth are classified in industry 2231, and those manufacturing felt hats in Industry Group 235.

2292 Lace Goods (S-98; C-91).—Establishments primarily engaged in manufacturing lace machine products, and those primarily engaged in dyeing and finishing lace goods. Establishments primarily engaged in manufacturing Schiffli machine embroideries are classified in industry 2397.

2293 Paddings and Upholstery Filling (S-84; C-81).—Establishments primarily engaged in manufacturing batting, padding, wadding, and filling for upholstery, pillows, quilts, and apparel from curled hair, cotton mill waste, moss, hemp tow, flax tow, kapok, and related materials. Establishments primarily engaged in manufacturing wood excelsior pads and wrappers are classified in industry 2429.

2294 Processed Waste and Recovered Fibers and Flock (S-95; C-86).—Establishments primarily engaged in processing textile mill waste for spinning, padding, batting, or other uses; in recovering textile fibers from clippings and rags; in cutting flock from waste, recovered fibers, or new fiber stock; and in manufacturing oakum and twisted jute packing. Establishments primarily engaged in cleaning and sorting wiping rags or waste are classified in nonmanufacturing industries.

2295 Artificial Leather, Oilcloth, and Other Impregnated and Coated Fabrics, Except Rubberized (S-86; C-83).—Establishments primarily engaged in manufacturing coated and impregnated textiles, and in the special finishing of textiles such as varnishing and waxing. Establishments primarily engaged in rubberizing purchased fabrics are classified in industry 3069, and those primarily engaged in dyeing and finishing textiles in Industry Group 226.

2296 Tire Cord and Fabric (S-87; C-91).—This industry comprises establishments primarily engaged in manufacturing cord and fabric for use in reinforcing rubber tires, industrial belting, fuel cells, and similar uses.

2297 Wool Scouring, Worsted Combing, and Tow to Top Mills (S-94; C-69).—This industry comprises establishments primarily engaged in processing textile fibers to prepare them for spinning. Important processes included in this industry are wool scouring and carbonizing, and combing and converting top.

2298 Cordage and Twine (S-90; C-87).—Establishments primarily engaged in manufacturing rope, cable, cordage, twine, and related products from abaca (Manila), sisal, henequen, hemp, cotton, paper, jute, flax, man-made fibers including glass, and other fibers.

2299 Textile Goods, N.E.C. (S-85; C-82).—Establishments primarily engaged in manufacturing linen goods, jute goods except felt, bonded fiber fabrics except felt, and other textile goods, n.e.c. Establishments primarily engaged in manufacturing woven felts are classified in industry 2231, nonwoven felts in industry 2291, and cordage and twine in industry 2298.

23 APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

This major group, known as the cutting-up or needle trades, includes establishments primarily producing apparel and fabricated products by cutting and sewing purchased woven or knit textile fabrics and related materials such as leather, rubberized fabrics, plastics and furs.

Covered in the apparel industries are three types of establishments: (1) the "regular" or inside factories; (2) contract factories; and (3) apparel jobbers. The "regular" factories perform all of the usual manufacturing functions on materials owned by themselves within their own plants; the contract factories manufacture apparel, on a contract or commission basis, on materials supplied to them by others; and apparel jobbers perform only entrepreneurial functions of a manufacturing establishment such as the purchase of raw materials for their own account, the design and preparation of samples, arrangement with outside factories (contractors) for the manufacture of garments from materials supplied by such jobbers, and the sale of finished apparel.

Custom tailors and dressmakers not operating on a factory basis are classified in nonmanufacturing industries. Establishments which primarily purchase and resell finished garments but do not perform the functions of apparel jobbers or manufacturers are classified in the wholesale trades.

The major group also includes manufacturers of fabricated textile products (other than apparel) from purchased fabrics, typically by cutting and sewing or the perfomance of sewing and related services on textile and similar materials for the trade.

231 MEN'S, YOUTHS', AND BOYS' SUITS, COATS, AND OVERCOATS:

2311 Men's, Youths', and Boys' Suits, Coats, and Overcoats (S-92; C-96).—Establishments primarily engaged in manufacturing men's, youths', and boys' suits, coats, and overcoats. Establishments primarily engaged in manufacturing uniforms (military, policemen's, firemen's, etc.) and tailored dress and sport coats, are also included in this industry. Establishments primarily engaged in manufacturing men's work and sport garments (such as lumber-jackets, ski suits, and riding garments) are classified in Industry Group 232, Men's, Youths', and Boys' Furnishings, Work Clothing, and Allied Garments.

232 MEN'S, YOUTHS', AND BOYS' FURNISHINGS, WORK CLOTHING AND ALLIED GARMENTS:

2321 Men's, Youths', and Boys' Shirts (Except Work Shirts), Collars, and Nightwear (S-85; C-81[5]).—Establishments primarily engaged in manufacturing men's, youths', and boys' shirts, collars, and nightwear cut and sewed from purchased woven or knit fabric. Establishments primarily engaged in manufacturing knit outerwear sport shirts from purchased knit fabric are also classified in this Industry. Establishments primarily engaged in manufacturing work shirts are classified in industry 2328. Knitting mills primarily engaged in manufacturing nightwear are classified in industry 2254, and knit outerwear sport shirts in industry 2253. Men's and boys' knit nightwear made in knitting mills is included in industry 2254.

2322 Men's, Youths', and Boys' Underwear (S-89; C-31[5]).—Establishments primarily engaged in manufacturing men's, youths', and boys' underwear cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing underwear are classified in industry 2254.

2323 Men's, Youths', and Boys' Neckwear (S-98; C-98).—Establishments primarily engaged in manufacturing men's, youths', and boys' neckties, scarfs, and mufflers cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing neckties, scarfs, and mufflers are classified in industry 2253.

2327 Men's, Youths', and Boys' Separate Trousers (S-83; C-78).—Establishments primarily engaged in manufacturing men's, youths', and boys' separate trousers and slacks. Establishments primarily engaged in manufacturing complete suits are classified in industry 2311, and work pants in industry 2328.

2328 Work Clothing (S-81; C-90).—Establishments primarily engaged in manufacturing men's and boys' work shirts, pants, and other work clothing and washable service apparel.

2329 Men's, Youths', and Boys' Clothing, N.E.C. (S-83; C-47[5]).—Establishments primarily engaged in manufacturing men's, youths', and boys' clothing, n.e.c. Establishments primarily engaged in manufacturing polo and sport shirts are classified in industry 2321; separate trousers in industry 2327; work clothing in industry 2328; and leather and sheeplined garments in industry 2386. Men's and boys' knit sweaters and other knit outerwear, n.e.c., made in knitting mills are classified as primary products of industry 2253, while men's and boys' knit outerwear, n.e.c., cut and sewed from purchased knit fabric are included in industry 2329.

233 WOMEN'S, MISSES', AND JUNIORS' OUTERWEAR:

2331 Blouses, Waists, and Shirts (S-86; C-69)[6].—Establishments primarily engaged in manufacturing women's, misses', and juniors' blouses, waists, and shirts from purchased woven or knit fabrics. Establishments making knit outerwear shirts from yarns knit in the same establishment are classified in industry 2253.

2335 Dresses (S-96; C-96).—Establishments primarily engaged in manufacturing women's, misses', and juniors' dresses, including ensemble dresses, whether sold by the piece or by the dozen. Knitting mills primarily engaged in manufacturing

women's, misses', and juniors' knit dresses and suits are classified in industry 2253.

2337 Suits, Skirts, and Coats, Except Fur Coats and Raincoats (S-88; C-92).—Establishments primarily engaged in manufacturing women's, misses', and juniors' suits, skirts, and coats except fur coats and raincoats. Establishments primarily engaged in manufacturing fur garments are classified in industry 2371, raincoats in industry 2385, and knitting mills primarily engaged in manufacturing knit outerwear in industry 2253.

2339 Women's, Misses', and Juniors' Outerwear, N.E.C. (S-80; C-55)[6].—Establishments primarily engaged in manufacturing women's, misses', and juniors' outerwear, n.e.c., cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing outerwear knit sweaters and other knit outerwear, n.e.c., are classified in industry 2253.

234 WOMEN'S, MISSES', CHILDREN'S, AND INFANTS' OUTERGARMENTS, UNDERGARMENTS:

2341 Women's, Misses', Children's, and Infants' Underwear and Nightwear (S-93; C-85[6]).—Establishments primarily engaged in manufacturing women's, misses', children's, and infants' underwear and nightwear cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing underwear and nightwear are classified in industry 2254.

2342 Corsets and Allied Garments (S-95; C-97).—Establishments primarily engaged in manufacturing corsets, corset accessories, and allied garments. Establishments primarily engaged in manufacturing surgical and orthopedic appliances are classified in industry 3842, and in manufacturing garter belts, in industry 2389.

235 HATS, CAPS, AND MILLINERY:

2351 Milinery (S-100; C-100).—Establishments primarily engaged in manufacturing women's, misses', children's, and infants' millinery. Establishments primarily engaged in manufacturing millinery braid and trimmings are classified in industry 2396.

2352 Hats and Caps, Except Millinery (S-98; C-98).—Establishments primarily engaged in manufacturing hats, caps (except millinery) and all hat bodies. Knitting mills primarily engaged in manufacturing caps are classified in industry 2253.

236 GIRLS', CHILDREN'S, AND INFANTS' OUTERWEAR:

2361 Dresses, Blouses, Waists, and Shirts (S-90; C-82[6]).—Establishments primarily engaged in manufacturing girls', children's, and infants' dresses, blouses, waists, and shirts, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing outerwear of this type are classified in industry 2253.

2363 Coats and Suits (S-92; C-85).—Establishments primarily engaged in manufacturing girls', children's, and infants' coats and suits, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing outerwear of this type are classified in industry 2253.

2369 Girls', Children's and Infants' Outerwear, N.E.C. (S-79; C-67[6]).—Establishments primarily engaged in manufacturing girls', children's, and infants outerwear, n.e.c., cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing sweaters and other outerwear, n.e.c., are classified in industry 2253.

237 FUR GOODS:

2371 Fur Goods (S-99; C-100).—Establishments primarily engaged in manufacturing fur coats, and other garments, accessories, and trimmings made of fur. Establishments primarily engaged in manufacturing sheeplined clothing are classified in industry 2386, and those engaged in dyeing and dressing of furs in industry 3992.

238 MISCELLANEOUS APPAREL AND ACCESSORIES:

2381 Dress and Work Gloves, Except Knit and All Leather (S-94; C-82[6]).—Establishments primarily engaged in manufacturing dress, semidress, and work gloves and mittens, cut and sewed from purchased woven or knit fabric, or these materials combined with leather. Knitting mills primarily engaged in manufacturing gloves and mittens are classified in industry 2259; establishments primarily engaged in manufacturing leather gloves in industry 3151; and those manufacturing rubber gloves in industry 3069.

2384 Robes and Dressing Gowns (S-96; C-94).—Establishments primarily engaged in manufacturing men's and women's robes and dressing gowns.

2385 Raincoats and Other Waterproof Outer Garments (S-92; C-93).—Establishments primarily engaged in manufacturing raincoats from purchased rubberized fabrics and other waterproof outergarments made from such material as pliofilm and cellophane. Establishments primarily engaged in manufacturing oiled fabric work garments are classified in industry 2328, and those manufacturing valcanized rubber garments and garments made from rubberized fabrics produced in the same establishments are classified in industry 3069.

2386 Leather and Sheeplined Clothing (S-97; C-83).—Establishments primarily engaged in manufacturing leather and sheeplined garments. Establishments primarily engaged in manufacturing leather gloves and mittens are classified in industry 3151, and fur garments in industry 2371.

2387 Apparel Belts (S-91; C-94).—Establishments primarily engaged in manufacturing men's and women's apparel belts, regardless of material.

2389 Apparel, N.E.C. (S-93; C-82).—Establishments primarily engaged in manufacturing suspenders, garters, handkerchiefs, and other apparel, n.e.c., such as academic caps and gowns, vestments, and theatrical costumes.

239 MISCELLANEOUS FABRICATED TEXTILE PRODUCTS, N.E.C.:—These establishments are engaged in the manufacture of fabricated textile products (other than apparel) from purchased fabrics. Textile mills producing fabricated textile products from material woven at the same establishment are classified in the appropriate weaving industry (Major Group 22). However, establishments that finish fabrics (bleach, dye, or print) and then further fabricate the fabrics into end products such as sheets are included in the appropriate 239 industry.

2391 Curtains and Draperies (S-96; C-95).—Establishments primarily engaged in manufacturing curtains and draperies from purchased materials.

2392 Housefurnishings, Except Curtains and Draperies (S-88; C-50).—Establishments primarily engaged in manufacturing housefurnishings from purchased materials. Establishments primarily engaged in manufacturing curtains and draperies are classified in industry 2391. Establishments primarily producing housefurnishings from fabrics woven at the same establishment are classified in the appropriate weaving industry, generally industry 2211.

2393 Textile Bags (S-88; C-85).—Establishments primarily engaged in manufacturing cotton, burlap, and other textile bags from purchased fabric. Establishments primarily engaged in manufacturing plastic bags are classified in industry 2643.

2394 Canvas Products (S-92; C-91).—Establishments primarily engaged in manufacturing awnings, tents, and other canvas products from purchased canvas. Establishments primarily engaged in manufacturing canvas bags are classified in industry 2393.

2395 Pleating, Decorative, and Novelty Stitching, and Tucking for the Trade (S-97; C-98).—Establishments primarily engaged in pleating, decorative and novelty stitching, and tucking for the trade. Establishments primarily engaged in performing similar services for individuals are classified in service industries. Establishments primarily engaged in manufacturing trimmings are classified in industry 2396.

2396 Apparel Findings and Related Products (S-98; C-97).—Establishments primarily engaged in manufacturing apparel findings, automobile and other trimmings.

2397 Schiffli Machine Embroideries (S-96; C-99).—Establishments primarily engaged in manufacturing Schiffli machine embroideries.

2399 Fabricated Textile Products, N.E.C. (S-86; C-75).—Establishments primarily engaged in manufacturing fabricated textile products, n.e.c.

24 LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

This major group includes logging camps engaged in cutting timber and pulpwood; merchant sawmills, lath mills, shingle mills, cooperage stock mills, planing mills, and plywood mills and veneer mills engaged in producing lumber and wood basic materials; and establishments engaged in manufacturing finished articles made entirely or mainly of wood or wood substitutes. Certain types of establishments producing wood products are classified elsewhere. For example, furniture, and office and store fixtures are classified in Major Group 25; pianos, musical instruments, toys and playground equipment, and caskets and coffins in Major Group 39. Woodworking in connection with construction, in the nature of reconditioning and repair, or performed to individual order, is classified in nonmanufacturing industries.

241 LOGGING CAMPS AND LOGGING CONTRACTORS:

2411 Logging Camps and Logging Contractors (S-99; C-90).—Establishments primarily engaged in cutting timber and in producing rough, round, hewn, or riven primary forest or wood raw materials. Independent contractors engaged in estimating or trucking timber but who perform no cutting operations are classified in nonmanufacturing industries. Logging and woods operations conducted in combination with sawmills, pulp mills, or other converting establishments, and not separately reported, are classified in their respective industry groups; namely, with sawmills in Industry Group 242, veneer and plywood mills in Industry Group 243, pulp mills in Major Group 26, and charcoal and wood distillation plants in Industry Group 286. Establishments primarily engaged in the collection of bark, sap, gum, and other forest byproducts are classified in nonmanufacturing industries.

242 SAWMILLS AND PLANING MILLS:

2421 Sawmills and Planing Mills, General (S-89; C-95).—Establishments primarily engaged in sawing rough lumber and timber from logs and bolts, or re-sawing cants and flitches into lumber, including box lumber and softwood cut stock; planing mills combined with sawmills; and separately operated planing mills which are engaged primarily in producing surfaced lumber and standard workings or patterns of lumber. This industry includes establishments primarily engaged in sawing lath and railroad ties, and in producing tobacco hogshead stock and snow fence lath. Establishments primarily engaged in manufacturing box shook or boxes are classified in Industry Group 244; and sash, doors, wood molding, window and door frames, and other fabricated millwork in industry 2431; and hardwood dimension and flooring in industry 2426. Logging camps combined with sawmills, when not separately reported, are included in this industry.

2426 Hardwood Dimension and Flooring Mills (S-86; C-86).—Establishments primarily engaged in manufacturing hardwood dimension lumber and workings therefrom; and other hardwood dimension, semifabricated or ready for assembly; and hardwood flooring. Establishments primarily engaged in manufacturing stairwork, molding, and trim are classified in industry 2431, and those manufacturing textile machinery bobbins, picker sticks, and shuttles in industry 3552.

2429 Special Product Sawmills, N.E.C. (S-98; C-97).—Establishments primarily engaged in manufacturing wood chips, excelsior, wood shingles, and cooperage stock, and in sawing special products, n.e.c.

243 MILLWORK, VENEER, PLYWOOD AND PREFABRICATED STRUCTURAL WOOD PRODUCTS:

2431 Millwork Plants (S-95; C-93).—Establishments primarily engaged in manufacturing fabricated millwork. Planing mills primarily engaged in producing millwork are included in this industry but planing mills primarily producing standard workings or patterns of lumber are classified in industry 2421.

2432 Veneer and Plywood Plants (S-92; C-94).—Establishments primarily engaged in producing commercial veneer, either face or technical, and those primarily engaged in manufacturing commercial plywood, including nonwood backed or faced veneer and nonwood faced plywood, from veneer produced in the same establishment or from purchased veneer. Establishments primarily engaged in manufacturing prefinished plywood from purchased plywood are also classified in this industry. Establishments primarily engaged in the production of veneer which is used in the same establishment for the manufacture of end products such as fruit and vegetable baskets are classified in industry 2443, and wood boxes in industries 2441 and 2442.

2433 Prefabricated Wooden Buildings and Structural Members (S-98; C-96).—Establishments primarily engaged in manufacturing prefabricated wooden buildings, sections, and panels; or in producing laminated or fabricated trusses, arches, and other structural members of lumber. Prefabrication on the site of construction is not included in this industry.

244 WOODEN CONTAINERS:

2441 Nailed and Lock Corner Wooden Boxes and Shook (S-85; C-83).—Establishments primarily engaged in manufacturing nailed and lock corner wooden boxes, and which also may produce shook for nailed and lock corner boxes.

2442 Wirebound Boxes and Crates (S-92; C-93).—Establishments primarily engaged in manufacturing wirebound boxes and crates.

2443 Veneer and Plywood Containers (S-90; C-79).—Establishments primarily engaged in manufacturing veneer and plywood containers, except boxes. This industry includes baskets made primarily of veneer and splint for shipping and marketing fruits and vegetables.

2445 Cooperage (S-97; C-99).—Establishments primarily engaged in manufacturing barrels, tubs, hogsheads, and other containers made of staves, except fruit and vegetable baskets (industry 2443). Establishments primarily engaged in manufacturing tobacco hogshead stock are classified in industry 2421, and those manufacturing cooperage stock in industry 2429.

249 MISCELLANEOUS WOOD PRODUCTS:

2491 Wood Preserving (S-98; C-97).—Establishments primarily engaged in treating wood, sawed or planed in other establishments, with creosote or other preservatives to prevent decay and to protect against fire and insects. This industry also includes the cutting, treating, and selling of poles, posts, and piling, but establishments primarily engaged in manufacturing other wood products, which they may also treat with preservatives, are not included.

2499 Wood Products, N.E.C. (S-92; C-87).—Establishments primarily engaged in turning and shaping wood, and manufacturing miscellaneous wood products, n.e.c., such as lasts and related products, cork products, mirror and picture frames, particle board, hard pressed wood fiberboard and fabricated hardboard products.

The composition of this industry has been slightly changed for 1963, due to the transfer of hard pressed wood fiberboard (hardboard) and fabricated hardboard products to this industry. Prior to 1963, establishments primarily engaged in manufacturing hardboard were classified in industry 2661, and those primarily producing fabricated hardboard products were classified in industry 2649.

25 FURNITURE AND FIXTURES

This major group includes establishments engaged in manufacturing household, office, public building, and restaurant furniture; and office and store fixtures. Establishments primarily engaged in the production of millwork are classified in industry 2431, and woodworking to individual order or in the nature of reconditioning and repair in nonmanufacturing industries.

251 HOUSEHOLD FURNITURE:—Establishments primarily engaged in making furniture to order of individual household consumers or primarily engaged in renovating furniture or mattresses are classified in nonmanufacturing industries. Establishments primarily engaged in making furniture parts (except wood frames or headboards) are not included in this group of industries but are generally classified in Major Group 24, Lumber and Wood Products or Major Group 34, Fabricated Metal Products. For example, furniture turnings are included in industry 2499, and furniture hardware, including, casters are included in industry 3429.

2511 Wood Household Furniture, Except Upholstered (S-94; C-96).—Establishments primarily engaged in manufacturing wood household furniture commonly used in dwellings. This industry also includes the manufacture of wood kitchen cabinets on a factory basis, and camp furniture. Establishments primarily engaged in manufacturing upholstered furniture or wood frames for upholstered furniture are classified in industry 2512, and reed and rattan furniture in industry 2519. Plants primarily engaged in renovating or refinishing furniture are classified

in trade industries and plants selling household furniture to household consumers through a retail store on the manufacturing premises are included in retail trade.

2512 Wood Household Furniture, Upholstered (S-92; C-92).—Establishments primarily engaged in manufacturing upholstered furniture on wood frames or wood frames for upholstered furniture. Shops primarily engaged in reupholstering furniture, or upholstering frames to individual order are classified in nonmanufacturing industries. Establishments primarily engaged in manufacturing dual purpose sleep furniture, such as studio couches, convertible sofas, jackknife sofa beds, and chair-beds, are classified in industry 2515 regardless of the materials used in the frame.

2514 Metal Household Furniture (S-88; C-89).—Establishments primarily engaged in manufacturing metal household furniture of a type commonly used in dwellings, whether padded, upholstered, or plain. Establishments primarily engaged in manufacturing dual purpose furniture, such as studio couches, sofa beds, and chair-beds are classified in industry 2515, regardless of the materials used in the frame.

2515 Mattresses and Bedsprings (S-90; C-90).—Establishments primarily engaged in manufacturing innerspring mattresses, boxspring mattresses, and non-innerspring mattresses containing felt, foam rubber, or any other filling material; and assembled wire springs (fabric, coil, or box) for use on beds, couches, and cots. This industry also includes establishments primarily engaged in manufacturing dual purpose sleep furniture, such as studio couches, sofa beds, and chair-beds, regardless of the material used in the frame. Establishments primarily engaged in manufacturing automobile seats and backs are classified in industry 2531; individual wire springs in industry 3481; and paddings and upholstery filling in industry 2293. Establishments primarily engaged in repair, renovating, etc., mattresses and bedsprings are classified in service industries.

2519 Household Furniture, N.E.C. (S-84; C-51).—Establishments primarily engaged in manufacturing reed, rattan, and other wicker furniture, and other household furniture, n.e.c.

252 OFFICE FURNITURE:

2521 Wood Office Furniture (S-90; C-87).—Establishments primarily engaged in manufacturing wood office furniture, whether padded, upholstered or plain.

2522 Metal Office Furniture (S-87; C-89).—Establishments primarily engaged in manufacturing metal office furniture, whether padded or plain. Establishments primarily engaged in manufacturing safes and vaults are classified in industry 3492.

253 PUBLIC BUILDING AND RELATED FURNITURE:

2531 Public Building and Related Furniture (S-85; C-85).—Establishments primarily engaged in manufacturing furniture for schools, theaters, assembly halls, churches, and libraries. Establishments primarily engaged in manufacturing seats for public conveyances, as well as seats for automobiles and aircraft, are included in this industry. Establishments primarily engaged in manufacturing stone furniture are classified in industry 3281, and concrete furniture in industry 3272.

254 PARTITIONS, SHELVING, LOCKERS, AND OFFICE AND STORE FIXTURES:

2541 Wood Partitions, Shelving, Lockers, and Office and Store Fixtures (S-94; C-89).—Establishments primarily engaged in manufacturing wood shelving, lockers, office and store fixtures, and prefabricated partitions, and related fabricated products.

2542 Metal Partitions, Shelving, Lockers, and Office and Store Fixtures (S-83; C-82).—Establishments primarily engaged in manufacturing metal shelving, lockers, office and store fixtures, prefabricated partitions, and related fabricated products.

259 MISCELLANEOUS FURNITURE AND FIXTURES, N.E.C.:

2591 Venetian Blinds and Shades (S-89; C-90).—Establishments primarily engaged in manufacturing Venetian blinds, regardless of the materials used, and shades except canvas shades and awnings, which are classified in industry 2394.

2599 Furniture and Fixtures, N.E.C. (S-86; C-70).—Establishments primarily engaged in manufacturing furniture and fixtures, n.e.c., including furniture especially designed for use in restaurants.

26 PAPER AND ALLIED PRODUCTS

This major group includes the manufacture of pulps from wood and other cellulose fibers, and rags; the manufacture of paper and paperboard; and the manufacture of paper and paperboard into converted products such as paper coated off the paper machine, paper bags, paper boxes, and envelopes. Certain types of converted paper products are classified elsewhere, such as abrasive paper in industry 3291; carbon paper in industry 3955, and photosensitized and blueprint paper in industry 3861.

261 PULP MILLS:

2611 Pulp Mills (S-88; C-71).—Establishments primarily engaged in manufacturing pulp from wood or from other materials such as rags, linters, wastepaper, and straw. Logging camps operated by pulp mills, and not separately reported, are also inincluded in this industry. Establishments primarily engaged in cutting pulpwood are classified in industry 2411; and pulp mills combined with paper mills or paperboard mills, and not separately reported, are classified with the latter in industries 2621 and 2631, respectively.

In both the 1963 and 1958 Censuses of Manufactures, pulp mills operated in conjunction with a paper and board mill at the same location were permitted to file a combined report for such integrated operations. However, in 1954 all pulp mill activity was separately reported whether or not such pulp mill operations were conducted at the same physical location as an associated paper or board mill. This change in treatment has the effect of restricting the reporting of a "pulp mill" for classification in industry 2611 in both the 1963 and 1958 censuses to the following situations: (a) those pulp mills which are not affiliated with any paper and board mills and ship all their products to the market; (b) pulp mills affiliated or associated with a primary paper or board mill but which are separately located from the pulp mill; and (c) a few pulp mills affiliated or associated with a primary paper or board mill at the same physical location, where separate departmental records of employment, materials, and fuel costs, shipments, etc., are maintained for the pulp mill from those covering the paper or board mill at that location and the company elected to file such a separate report.

262 PAPER MILLS, EXCEPT BUILDING PAPER MILLS:

2621 Paper Mills, Except Building Paper Mills (S-90; C-92).—Establishments primarily engaged in manufacturing paper (except building paper—industry 2661) from wood pulp and other fibers, and which may also manufacture converted paper products (confined almost exclusively to off-machine paper coating). Pulp mills combined with paper mills, and not separately reported, are also included in this industry; where separately reported, they are classified in industry 2611. Establishments primarily engaged in manufacturing converted paper products from purchased paper stock are classified in Industry Group 264 or 265.

263 PAPERBOARD MILLS:

2631 Paperboard Mills (S-85; C-90).—Establishments primarily engaged in manufacturing paperboard, including paperboard coated on the paperboard machine, from wood pulp and other fibers; and which may also manufacture converted paperboard products (confined almost exclusively to pasted, lined, laminated or surface-coated paperboard). Pulp mills combined with paperboard mills, and not separately reported, are also included in this industry; where separately reported, they are classified in industry 2611. Establishments primarily engaged in manufacturing converted paperboard products from purchased paperboard are classified in Industry Group 264 or 265.

264 CONVERTED PAPER AND PAPERBOARD PRODUCTS, EXCEPT CONTAINERS AND BOXES:

2641 Paper Coating and Glazing (S-82; C-78).—Establishments primarily engaged in manufacturing coated, glazed, or varnished paper from purchased paper. Establishments primarily engaged in coating paper on the paper machine are classified in industry 2621; those manufacturing carbon paper in industry 3955; and photographic and blueprint paper in industry 3861.

Principal products of this industry include: off-machine coated paper; oiled, waxed, and wax-laminated paper and wrappers; pressure sensitive tape; gummed products; and other coated and processed paper.

2642 Envelopes (S-94; C-96).—Establishments primarily engaged in manufacturing envelopes of any description from purchased paper and paperboard. Establishments primarily engaged in manufacturing papeteries (boxed stationery) are classified in in industry 2649.

2643 Bags, Except Textile Bags (S-86; C-88).—Establishments primarily engaged in manufacturing bags from purchased paper, cellophane, acetate, polyethylene, pliofilm, foil, and similar sheet or film materials.

2644 Wallpaper (S-97; C-99).—Establishments primarily engaged in designing, printing, and embossing paper for interior walls, and ceilings. Establishments primarily engaged in manufacturing wall cloth from textile fabrics are classified in industry 2295.

2645 Die Cut Paper and Paperboard and Cardboard (S-88; C-82).—Establishments primarily engaged in die cutting purchased paper and paperboard, and in manufacturing cardboard by laminating, lining, or surface coating paperboard.

2646 Pressed and Molded Pulp Goods (S-99; C-96).—Establishments primarily engaged in manufacturing all kinds of pressed and molded pulp goods, including papier-mache articles other than statuary and art goods.

2647 Sanitary Paper Products (S-93; C-97).—Establishments primarily engaged in manufacturing sanitary health products from purchased paper and paperboard. The principal products of this industry are sanitary napkins and tampons; facial tissues; table napkins, toilet paper, towels and wipes. This industry was not separately identified for 1958 in the SIC but was included in industry 2649. Comparable data for 1963 using the previous industry classification for industry 2649 are shown in tables 1 and 2 of the chapter for that industry.

2649 Converted Paper and Paperboard Products, N.E.C. (S-84; C-78).—Establishments primarily engaged in manufacturing from purchased paper or paperboard miscellaneous converted paper or paperboard products, n.e.c.

The principal products of this industry are: stationery, tablets and related products; wrapping products such as gift wrap and and creped wadding; patterns, business machine supplies, tiled and laminated wallboard, unprinted tags and other miscellaneous paper and board products.

Sanitary paper products were transferred from this industry and established as a separate industry (2647) for 1963.

265 PAPERBOARD CONTAINERS AND BOXES:—There is a high degree of integration between industry 2631, and the various board converting industries, except industries 2652 and 2655, which rely principally on market purchases of paperboard. In industries 2651, 2653, and 2654, a substantial part of the converted paperboard is manufactured and converted by the same company, either at the same location or at separate locations.

2651 Folding Paperboard Boxes (S-85; C-88).—Establishments primarily engaged in manufacturing folding paperboard boxes from purchased paperboard.

2652 Set-Up Paperboard Boxes (S-91; C-87).—Establishments primarily engaged in manufacturing set-up paperboard boxes from purchased paperboard.

2653 Corrugated and Solid Fiber Boxes (S-97; C-96).—Establishments primarily engaged in manufacturing corrugated and solid fiber boxes and related products from purchased paperboard of fiber stock. Important products of this industry include corrugated and solid fiberboard boxes, pads, partitions, display items, pallets, single face products, and corrugated sheets.

2654 Sanitary Food Containers (S-92; C-92).—Establishments primarily engaged in manufacturing food containers from special food board. Important products of this industry include fluid milk containers; folding paraffined cartons for butter, margarine, and shortening; ice cream containers; frozen food containers; liquid tight containers; round nested food containers; paper cups for hot or cold drinks; and pails for food and ice cream.

2655 Fiber Cans, Tubes, Drums, and Similar Products (S-95; C-80).—Establishments primarily engaged in manufacturing fiber cans, cones, drums, and similar products with or without metal ends, from purchased materials; and vulcanized fiber boxes.

266 BUILDING PAPER AND BUILDING BOARD MILLS:

2661 Building Paper and Building Board Mills (S-97; C-88).—Establishments primarily engaged in manufacturing building paper and building board, except hard pressed wood fiberboard, from wood pulp and other fibrous materials. Mills producing hard pressed wood fiberboard are classified in industry 2499. In addition, insulation board mills which perform coating operations at their primary mill locations are classified in industry 2952. Pulp mills combined with building paper and building board mills, and not separately reported, are also included in this industry; where separately reported, they are classified in industry 2611. As noted previously in connection with industry 2611, same physical location as paper or board were not required in either the 1963 or the 1958 Census of Manufactures to submit a separate report for the pulp mill operations. This reporting requirement had less effect on the general statistics of mills primarily engaged in producing building paper and board than on those producing paperboard and paper, except building paper.

27 PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

This major group includes establishments engaged in printing by one or more of the common processes, such as letterpress, lithography, gravure, or screen; and those establishments which perform services for the printing trade, such as bookbinding, typesetting, engraving, photoengraving, and electrotyping. This major group also includes establishments engaged in publishing newspapers, books, and periodicals, whether or not they do their own printing. News syndicates are classified in service industries, and textile printing and finishing in Major Group 22.

271 NEWSPAPERS: PUBLISHING, PUBLISHING AND PRINTING:

2711 Newspapers: Publishing, Publishing and Printing (S-96; C-100).—Establishments primarily engaged in publishing newspapers, or in publishing and printing newspapers. These establishments carry on the various operations necessary for issuing newspapers, including the gathering of news, and the preparation of editorials and advertisements, but may or may not perform their own printing. Commercial printing is frequently carried on by establishments engaged in publishing and printing newspapers, but even though the commercial printing may be of major importance such establishments are included in this industry.

Establishments not engaged in publishing newspapers, but which print or lithograph newspapers for publishers, are classified in industry 2751 or industry 2752. News syndicates are classified in service industries. Establishments primarily engaged in publishing shopping news are classified in industry 2741.

Publications have been classified as periodicals (industry 2721) rather than as newspapers if their news and editorial presentations are not typically directed to the public at large. Where the news is of general interest publications are considered periodicals if they are not the primary printed source of such news. Among the types of publications sometimes considered newspapers, but treated in the census as periodicals, are the following: trade journals; house organs, local church or school papers and like publications with very limited or specialized news treatment. Generally, publications issued by nonprofit organizations (educational, religious, charitable, labor, business, professional, etc.) are classified as periodicals, as are magazine and comic supplements for Sunday newspapers.

272 PERIODICALS: PUBLISHING, PUBLISHING AND PRINTING:

2721 Periodicals: Publishing, Publishing and Printing (S-89; C-96).—Establishments primarily engaged in publishing periodicals, or

in preparing, publishing, and printing periodicals. These establishments carry on the various operations necessary for issuing periodicals, but may or may not perform their own printing. Establishments not engaged in publishing periodicals, but which print periodicals for publishers, are classified in industry 2751 or industry 2752.

Data on the periodical publishing activities of nonprofit organizations (religious, educational, social, charitable, etc.) have been included to the extent that the employees of such organizations were covered under the Social Security System.

273 BOOKS:

2731 Books: Publishing, Publishing and Printing (S-93; C-88).—Establishments primarily engaged in publishing only, or in publishing and printing books and pamphlets. Establishments primarily engaged in printing, or in printing and binding (but not publishing) books and pamphlets are classified in industry 2732.

Industry 2731 also includes data on book publishing activities obtained from nonprofit organizations whose employees are covered under the Social Security System and were able to report their book publishing operations as a separate establishment.

2732 Book Printing (S-78; C-69).—Establishments primarily engaged in printing only or in printing and binding books and pamphlets, but not in publishing. Establishments primarily engaged in publishing, or in publishing and printing books and pamphlets, are classified in industry 2731. Establishments engaged in both printing and binding books, but primarily binding books printed elsewhere, are classified in industry 2789.

Establishments classified in industry 2732 are similar in character to some establishments primarily engaged in commercial letterpress printing (industry 2751) and in commercial lithography (industry 2752). The distinction is that the establishments classified in industry 2732 derive the greater part of their revenue from printing books and pamphlets, while such operations are secondary activities for establishments classified in industries 2751 and 2752.

274 MISCELLANEOUS PUBLISHING:

2741 Miscellaneous Publishing (S-92; C-84).—Establishments primarily engaged in miscellaneous publishing activities, n.e.c., whether or not engaged in printing. Establishments primarily engaged in offering financial, credit, or other business services and which may publish directories as part of this service are not included in this industry but are classified in service industries.

This industry comprises establishments primarily engaged in publishing such products as maps, atlases, sheet music, directories, almanacs, catalogs, globe covers, racing forms, and shopping news or engaged in miscellaneous publishing activities, n.e.c., whether or not engaged in printing. Establishments primarily engaged in printing such products and not engaged in publishing are classified in industry 2751, or industry 2752, depending on the primary printing process employed. Establishments primarily engaged in publishing greeting cards are classified in industry 2771.

275 COMMERCIAL PRINTING:

2751 Commercial Printing, Except Lithographic (S-86; C-79).—Establishments primarily engaged in commercial or job printing, except lithographic. This industry includes general printing shops, as well as shops specializing in printing newspapers and periodicals for others, and those which specialize in gravure, rotogravure, and screen process printing. Establishments primarily engaged in printing books, without publishing, are classified in industry 2732, and greeting cards in industry 2771. Establishments primarily engaged in printing from lithographic plates are classified in industry 2752.

2752 Commercial Printing, Lithographic (S-80; C-82).—Establishments primarily engaged in printing by the lithographic process. The greater part of the work in this industry is performed on a job or custom basis; but in some cases lithographed calendars, maps, posters, decalcomanias, etc., are made for sale. Offset printing, photo-offset printing, and photolithographing are also included in this industry. Establishments primarily engaged in lithographing books and pamphlets, without publishing, are classified in industry 2732, and greeting cards in industry 2771.

2753 Engraving and Plate Printing (S-89; C-79).—Establishments primarily engaged in engraving and etching steel, copper, wood, or rubber plates; in using these plates to print stationery, visiting and other cards, invitations, maps, etc.; and in making woodcuts for use in printing illustrations, posters, etc. Engraving for purposes other than printing is classified in industry 3479. Establishments primarily engaged in preparing photoengraved plates (halftones and linecuts) are classified in industry 2793.

276 MANIFOLD BUSINESS FORMS MANUFACTURING:

2761 Manifold Business Forms Manufacturing (S-90; C-91).—Establishments primarily engaged in designing and printing, by any process, special forms for use in the operation of a business, in single and multiple sets, including carbonized or interleaved with carbon or otherwise processed for multiple reproduction. The principal types of manifold business forms are continuous, unit-set, and salesbooks.

277 GREETING CARD MANUFACTURING:

2771 Greeting Card Manufacturing (S-92; C-96).—Establishments primarily engaged in designing only, manufacturing only, or designing and manufacturing greeting cards for all occasions. These products may be printed, lithographed, etched, or otherwise processed.

278 BOOKBINDING AND RELATED INDUSTRIES:

2782 Blankbooks; Loose Leaf Binders and Devices (S-88; C-88).—Establishments primarily engaged in manufacturing blankbooks, loose leaf devices, and library binders.

2789 Bookbinding, and Miscellaneous Related Work (S-95; C-83).—Establishments primarily engaged in edition, trade, job, and library bookbinding; in book or paper bronzing, gilding, and edging; in map and sample mounting; and other services related to bookbinding. Establishments primarily binding books printed elsewhere are classified in this industry, but those primarily binding books printed in the same establishment are classified in Industry Group 273.

279 SERVICE INDUSTRIES FOR THE PRINTING TRADE:

2791 Typesetting (S-95; C-90).—Establishments primarily engaged in machine and hand typesetting for the trade, and in advertising typography.

2793 Photoengraving (S-95; C-91).—Establishments primarily engaged in preparing photoengraved plates (halftones and linecuts). These establishments do not, as a rule, print from the plates which they make, but prepare them for use by others.

2794 Electrotyping and Stereotyping (S-87; C-86).—Establishments primarily engaged in preparing electrotype and stereotype plates. These establishments do not, as a rule, print from the plates which they make, but prepare them for use by others.

28 CHEMICALS AND ALLIED PRODUCTS

This major group includes establishments producing basic chemicals, and establishments manufacturing products by predominatly chemical processes. Establishments classified in this major group manufacture three general classes of products: (1) basic chemicals such as acids, alkalies, salts, and organic chemicals; (2) chemical products to be used in further manufacture such as synthetic fibers, plastics materials, dry colors, and pigments; (3) finished chemical products to be used for ultimate consumption such as drugs, cosmetics, and soaps; or to be used as materials or supplies in other industries such as paints, fertilizers, and explosives. The mining of natural rock salt is classified in mining industries. Establishments primarily engaged in manufacturing nonferrous metals and high percentage ferroalloys are classified in Major Group 33; silicon carbide in Major Group 32; baking powder, other leavening compounds, and starches in Major Group 20; and embalming fluids and artists' colors in Major Group 39. Establishments primarily engaged in packaging, repackaging, and bottling of purchased chemical products, but not engaged in manufacturing chemicals and allied products, are classified in trade industries.

281 INDUSTRIAL INORGANIC AND ORGANIC CHEMICALS:

2812 Alkalies and chlorine (S-66; C-79).--Establishments primarily engaged in manufacturing sodium hydroxide (caustic soda), potassium hydroxide (caustic potash), soda ash, potassium carbonate, sodium bicarbonate, sal soda, and chlorine. Establishments primarily engaged in manufacturing ammonium compounds or alkali metals are classified in industry 2819, and

plants primarily engaged in mining natural potassium or sodium alkalies are classified in SIC industry 1474.

2813 Industrial Gases (S-98; C-87).—Establishments primarily engaged in manufacturing gases for sale in compressed, liquid, and solid forms. Establishments primarily engaged in manufacturing fluorine, ammonia, and sulfur dioxide are classified in industry 2819; and chlorine in industry 2812. Distributors of industrial gases and establishments primarily engaged in shipping liquid oxygen are classified in trade. Natural gasoline plants engaged in the production of gases in compressed and liquefied form are classified in mining industries, and petroleum refineries producing these gases in industry 2911.

2814 Cyclic (coal tar) Crudes (S-D; C-D).—Establishments primarily engaged in manufacturing crudes from coal tar. Such crudes include: (1) light oils and light oil products; (2) coal tar acids; and (3) products of medium and heavy oil such as creosote oil, naphthalene, anthracene, and their higher homologues, and tar. Establishments primarily engaged in manufacturing coal tar crudes in chemical recovery ovens are classified in industry 3312, and petroleum refineries which produce such products in industry 2911.

2815 Dyes, Dye (cyclic) Intermediates, and Organic Pigments (lakes and toners) (S-69; C-65).—Establishments primarily engaged in manufacturing cyclic organic intermediates, dyes, color lakes and toners. Important products of this industry include: (1) derivatives of benzene, toluene, naphthalene, anthracene, pyridine, carbozole and other cyclic chemical products; (2) synthetic organic dyes; and (3) synthetic organic pigments.

2816 Inorganic Pigments (S-91; C-87).—Establishments primarily engaged in manufacturing inorganic pigments. Important products of this industry include black pigments (except carbon black, industry 2895), white pigments and color pigments. Organic color pigments are classified in industry 2815.

2818 Industrial Organic Chemicals, N.E.C. (S-72; C-81).—Establishments primarily engaged in manufacturing industrial organic chemicals, n.e.c. Important products of this industry include: (1) noncyclic organic chemicals such as acetic, chloroacetic, adipic, formic, oxalic and tartaric acids and their metallic salts; chloral, formaldehyde and methylamine; (2) solvents such as amyl, butyl and ethyl alcohols; methanol; amyl, butyl and ethyl acetates; ethyl ether, ethylene glycol ether and diethylene glycol ether; acetone, carbon disulfide and chlorinated solvents such as carbon tetrachloride, perchloroethylene and trichloroethylene; (3) polyhydric alcohols such as ethylene glycol, sorbitol, pentaerythritol; (4) synthetic perfume and flavoring materials such as coumarin, methyl salicylate, saccharin, citral, citronellal, synthetic geraniol, ionone, terpineol, and synthetic vanillin; (5) rubber processing chemicals such as accelerators and antioxidants, both cyclic and acyclic; (6) plasticizers, both cyclic and acyclic, such as esters of phosphoric acid, phthalic anhydride, adipic acid, lauric acid, oleic acid, sebacic acid, and stearic acid; (7) synthetic tanning agents such as naphthalene sulfonic acid condensates; (8) chemical warfare gases; and (9) esters, amines, etc. of polyhydric alcohols and fatty and other acids. Establishments primarily engaged in manufacturing plastic materials and nonvulcanizable elastomers are classified in industry 2821; synthetic rubber in industry 2822; essential oils in industry 2899; wood distillation products, naval stores, and natural dyeing and tanning materials in Industry Group 286; rayon and other synthetic fibers in industries 2823 and 2824; specialty cleaning, polishing and sanitation preparations in industry 2842; and paints and pigments in Industry Group 285. Distilleries engaged in the manufacture of grain alcohol for beverage purposes are classified in industry 2085.

2819 Industrial Inorganic Chemicals, N.E.C. (S-88; C-74)[8].—Establishments primarily engaged in manufacturing industrial inorganic chemicals, n.e.c. Important products of this industry include inorganic salts of sodium (excluding refined sodium chloride), potassium, aluminum, calcium, chromium, magnesium, mercury, nickel, silver, tin; inorganic compounds such as alums, calcium carbide, hydrogen peroxide, phosphates, sodium silicate, ammonia compounds and anhydrous ammonia; fertilizer materials such as muriate and sulfate of potash; rare earth metal salts and elemental bromine, fluorine, iodine, phosphorous, and alkali metals (sodium, potassium, lithium, etc.).

282 PLASTICS MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RUBBER, SYNTHETIC AND OTHER MAN-MADE FIBERS, EXCEPT GLASS:

2821 Plastics Materials, Synthetic Resins, and Nonvulcanizable Elastomers (S-84; C-64).—Establishments primarily engaged in manufacturing synthetic resins, plastics materials, and nonvulcanizable elastomers. Important products of this industry include: cellulose plastic materials; phenolic and other tar acid resins; urea and melamine resins; vinyl resins; styrene resins; alkyd resins; acrylic resins; polyethylene resins; rosin modified resins; coumarone-indene and petroleum polymer resins; and miscellaneous resins, including polyamid resins, silicones, polyisobutylenes, polyesters; vulcanized fiber; casein plastics; and regenerated cellulose. This classification does not include nonchemical manufacturers who merely purchase resin or plastics materials to produce fabricated plastics products, film, and sheets, classified in industry 3079.

2822 Synthetic Rubber (Vulcanizable Elastomers) (S-92; C-80).—Establishments primarily engaged in manufacturing synthetic rubber by polymerization or copolymerization. An elastomer for the purpose of this classification is a rubber-like material capable of vulcanization, such as copolymers of butadiene and styrene, or butadiene and acrylonitrile, polybutadienes, chloroprene rubbers, and isobutylene-isoprene copolymers. Butadiene copolymers containing less than 50% butadiene are classified in industry 2821. Chlorinated rubber and cyclized rubbers are considered as semifinished products, and are classified in industry 3069.

2823 Cellulosic Man-Made Fibers (S-D; C-D).—Establishments primarily engaged in manufacturing cellulosic fibers (including cellulose acetate and regenerated cellulose such as rayon by the viscose or cuprammonium process) in the form of monofilament, yarn, staple or tow suitable for further manufacturing on spindles, looms, knitting machines or other textile processing equipment. Establishments primarily engaged in manufacturing textile glass fibers are classified in industry 3229.

2824 Synthetic Organic Fibers, Except Cellulosic (S-95; C-97).—Establishments primarily engaged in manufacturing synthetic organic fibers except cellulosic (including those of regenerated proteins, and of polymers or copolymers of such components as vinyl chloride, vinylidene chloride, linear esters, vinyl alcohols, acrylonitrile, ethylenes, amides, and related polymeric materials) in the form of monofilament, yarn, staple or tow suitable for further manufacturing on spindles, looms, knitting machines or other textile processing equipment. Establishments primarily engaged in manufacturing textile glass fibers are classified in industry 3229.

283 DRUGS:

2831 Biological Products (S-88; C-45).—Establishments primarily engaged in the production of bacterial and virus vaccines, toxoids and analogous products (such as allergenic extracts), serums, plasmas, and other blood derivatives for human or veterinary use. Excluded are the activities of the American Red Cross, hospitals and other institutions which are important collectors of blood and producers of blood products.

2833 Medicinal Chemicals and Botanical Products (S-71; C-47).—Establishments primarily engaged in (1) manufacturing bulk organic and inorganic chemicals and their derivatives; and (2) processing (grading, grinding, and milling) bulk botanical drugs and herbs. Establishments primarily engaged in manufacturing agar-agar and similar products of natural origin, endocrine products, manufacturing or isolating basic vitamins, and isolating active medicinal principles such as alkaloids from botanical drugs and herbs are also included in this industry. Establishments primarily engaged in manufacturing reagent and chemically pure grades (other than United States Pharmacopoeia or National Formulary) of inorganic and organic chemicals are classified in industries 2819 and 2818, respectively.

2834 Pharmaceutical Preparations (S-87; C-94).—Establishments primarily engaged in manufacturing, fabricating, or processing drugs into pharmaceutical preparations for human or veterinary use. The greater part of the products of these establishments are finished in the form intended for final consumption, such as tablets, capsules, ointments, solutions and suspensions. Products of this industry consist of two important lines, namely, (1) pharmaceutical preparations primarily advertised or otherwise promoted to or prescribed by the health professions:

medical, dental, pharmaceutical, nursing, etc.; and (2) pharmaceutical preparations primarily advertised or otherwise promoted to the general public. Establishments compounding drugs and medicines and selling these "over the counter" are classified in trade industries.

284 SOAP, DETERGENTS AND CLEANING PREPARATIONS, PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS:

2841 Soap and Other Detergents, Except Specialty Cleaners (S-82; C-92).—Establishments primarily engaged in manufacturing soap, synthetic organic detergents, inorganic alkaline detergents, or any combination thereof, and establishments producing crude and refined glycerine from vegetable and animal fats and oils. Establishments primarily engaged in manufacturing shampoos or shaving products, whether from soap or synthetic detergents, are classified in industry 2844; and synthetic glycerin in industry 2818.

2842 Specialty Cleaning, Polishing, and Sanitation Preparations, Except Soap and Detergents (S-82; C-72).—Establishments primarily engaged in the manufacture of furniture and automobile body polish and cleaners, floor polish and shoe polishes and cleaners; dressings and finishes for fabricated leather and other materials; household insecticides and repellants and industrial exterminants; household, institutional, and industrial plant disinfectants and deodorants; fabric softeners and laundry starch preparations; and other sanitation preparations.

2843 Surface Active Agents, Finishing Agents, Sulfonated Oils and Assistants (S-80; C-47).—Establishments primarily engaged in producing surface active preparations for use as wetting agents, emulsifiers, and penetrants. Establishments engaged in producing sulfonated oils and fats and related products are also included.

2844 Perfumes, Cosmetics, and Other Toilet Preparations (S-91; C-84).—Establishments primarily engaged in manufacturing perfumes (natural and synthetic), cosmetics, and other toilet preparations. This industry also includes establishments primarily engaged in blending and compounding perfume bases; and those manufacturing shampoos and shaving products, whether from soap or synthetic detergents. Establishments primarily engaged in manufacturing synthetic perfume and flavoring materials are classified in industry 2818, and essential oils in industry 2899.

285 PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS:

2851 Paints, Varnishes, Lacquers, and Enamels, and Allied Products (S-95; C-96).—Establishments primarily engaged in the manufacture of paints (in paste and ready-mixed form), varnishes, lacquers, enamels, and shellac; putties and caulking compounds; wood fillers and sealers; paint and varnish removers; paint brush cleaners, and allied paint products.

The code number for this industry in the Standard Industrial Classification Manual is unchanged, but the content of the industry has been slightly changed from the classification system used in 1958. The change in the composition of the industry as now constituted, compared with that under the classification system followed in the 1958 census, is due principally to the inclusion of industry 2852 in 1963.

286 GUM AND WOOD CHEMICALS:

2861 Gum and Wood Chemicals (S-74; C-77).—Establishments primarily engaged in manufacturing hardwood and softwood distillation products, wood and gum naval stores, charcoal, natural dyestuffs, and natural tanning materials, tall oil and rosin, and rosin acid products. Establishments primarily engaged in manufacturing synthetic tanning materials are classified in industry 2818, synthetic dyes in industry 2815, and synthetic organic chemicals in industry 2818.

287 AGRICULTURAL CHEMICALS:

2871 Fertilizers (S-89; C-97).—Establishments primarily engaged in manufacturing mixed fertilizers (mixtures containing nitrogen, phosphoric acid (P_2O_5) or potash), from one or more fertilizer materials produced in the same establishment. Sulfuric, phosphoric, and nitric acid plants operated in conjunction with fertilizer plants and separately reported are classified in industry 2819. When separate reports are not available these acid plants are classified in this industry. Establishments engaged in manufacturing urea are classified in industry 2818. Establishments primarily engaged in mining, milling, or otherwise preparing natural potassium, sodium, or boron compounds (other than common salt) are classified in industry 1474. Establishments primarily engaged in manufacturing mixed fertilizers from purchased fertilizer materials are classified in industry 2872.

2872 Fertilizers, Mixing Only (S-94; C-96).—Establishments primarily engaged in mixing fertilizers from purchased fertilizer materials. Establishments primarily engaged in bulk blending of purchased fertilizer materials mostly for sale directly to the consumer are classified in retail trade.

2879 Agricultural Pesticides and other Agricultural Chemicals,N.E.C. (S-87; C-69).—Establishments primarily engaged in the formulation and preparation of ready-to-use agricultural pest control chemicals, including insecticides, fungicides, rodenticides, and herbicides from technical chemicals and concentrates, and the manufacture and formulation of miscellaneous agricultural chemicals, n.e.c., such as minor or trace elements, soil conditioners, etc.

Establishments primarily engaged in manufacturing basic or technical agricultural pest control chemicals including insecticides, fungicides, rodenticides and herbicides, such as lead and calcium arsenates, copper sulfate, DDT, BHC, 2, 4- D, carbonates, etc. are classified in Industry Group 281. Establishments primarily engaged in the production of household pesticides are classified in industry 2842, while establishments primarily engaged in manufacturing agricultural lime products are classified in Major Group 32.

The industry code 2879 for 1963 represents a change from the classification structure existing in 1958. In 1963 the industry combines two 1958 industries: 2873 and 2879.

289 MISCELLANEOUS CHEMICAL PRODUCTS:

2891 Glue and Gelatin (S-83; C-72).—Establishments primarily engaged in manufacturing (1) industrial and household adhesives, glues, sizes, and cements from vegetable, animal, purchased synthetic resins or synthetic resin and rubber combinations; and (2) edible, technical, photographic, or pharmaceutical gelatins from animal material. Establishments primarily engaged in manufacturing dessert preparations based on gelatin are classified in industry 2099; vegetable gelatin or agar-agar in industry 2833; rubber cement in industry 3069; and asbestos cement in industry 3292.

2892 Explosives (S-88; C-94).—Establishments primarily engaged in manufacturing explosives such as sporting powder, blasting powder, high explosives, nitrated carbohydrates, safety fuses, and blasting and detonating caps. Included in this industry are government-owned plants operated by private firms for the account of the Federal Government. Establishments primarily engaged in manufacturing ammunition for small arms are classified in Industry Group 196, and fireworks and pyrotechnics such as flares (all kinds) and railroad torpedoes, in industry 2899. Establishments primarily engaged in shooting wells and also engaged in manufacturing nitroglycerine are included in the mineral industries.

2893 Printing Ink (S-93; C-92).—Establishments primarily engaged in manufacturing printing ink, gravure ink, screen process ink, and lithographic ink. Establishments primarily engaged in manufacturing writing and stamp pad inks are classified in industry 2899, and varnishes for printers' inks in industry 2851.

2895 Carbon Black (S-D; C-D).—Establishments primarily engaged in manufacturing carbon black (channel and furnace black). Establishments primarily engaged in manufacturing bone black and lamp black are classified in industry 2816.

2899 Chemical Preparations, N.E.C. (S-82; C-71).—Establishments primarily engaged in the manufacture of miscellaneous chemical preparations, n.e.c., such as essential oils, fireworks, automotive chemical specialties, and evaporated salt; industrial compounds, such as boiler and heat insulating compounds, metal, oil and water treating compounds, water proofing compounds and chemical supplies for foundries; fatty acids, such as stearic, oleic, fish and marine, coconut-type fatty acids, and other unsaturated fatty acids fractionated from vegetable and animal oils and fats.

The code number for this industry in the Standard Industrial Classification Manual is unchanged, but the content of the industry has been slightly changed from the classification

system used in 1958. The composition of the industry as now constituted, compared with that under the classification system followed in the 1958 census, is due principally to a change in definition of industry 2899 to include fatty acids and the subsequent reclassification of establishments formerly included in the old industry 2894, fatty acids, to industry 2899.

29 PETROLEUM REFINING AND RELATED INDUSTRIES

This major group includes establishments primarily engaged in petroleum refining, manufacturing paving and roofing materials, and compounding lubricating oils and greases from purchased materials. Establishments manufacturing and distributing gas to consumers are classified in public utilities industries, and those primarily engaged in producing coke and byproducts in Major Group 33.

291 PETROLEUM REFINING:

2911 Petroleum Refining (S-98; C-97[9]).—Establishments primarily engaged in producing gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants and other products from crude petroleum, and its fractionation products either through straight distillation of crude oil, redistillation of unfinished petroleum derivatives, cracking or other processes. Establishments primarily engaged in producing natural gasoline from natural gas are classified in mining industries. Those manufacturing lubricating oils and greases by blending and compounding purchased materials are included in industry 2992.

295 PAVING AND ROOFING MATERIALS:

2951 Paving Mixtures and Blocks (S-92; C-89).—Establishments primarily engaged in manufacturing asphalt and tar paving mixtures; and paving blocks made of asphalt, creosoted wood, and various compositions of asphalt or tar with other materials. Establishments primarily engaged in manufacturing brick, concrete, granite, and stone paving blocks are classified in Major Group 32.

2952 Asphalt Felts and Coatings (S-90; C-92).—Establishments primarily engaged in manufacturing asphalt and other saturated roofing felts in roll or shingle form, either smooth or faced with grit, and in manufacturing roofing cements and coatings. Establishments primarily engaged in manufacturing paint are classified in industry 2851.

299 MISCELLANEOUS PRODUCTS OF PETROLEUM AND COAL:

2992 Lubricating Oils and Greases (S-91; C-33[10]).—Establishments primarily engaged in blending and compounding lubricating oils and greases from purchased mineral, animal, and vegetable materials. Petroleum refineries engaged in the production of lubricating oils and greases are classified in industry 2911.

2999 Products of Petroleum and Coal, N.E.C. (S-96; C-91).—Establishments primarily engaged in manufacturing fuel briquets, boulets, packaged fuel, powdered fuel, and other products of petroleum and coal, n.e.c. Wood charcoal briquets are classified in industry 2861.

30 RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

This major group includes establishments manufacturing from natural, synthetic, or reclaimed rubber, gutta percha, balata, or gutta siak, rubber products such as tires, rubber footwear, mechanical rubber goods, heels and soles, flooring, and rubber sundries. This group also includes establishments engaged in molding primary plastics for the trade, and manufacturing miscellaneous finished plastics products. The manufacture of elastic webbing is classified in Major Group 22; products made of elastic webbing and garments made from rubberized fabrics in Major Groups 23; synthetic rubber in industry 2822; and plastics materials in the form of sheets, rods, tubes, granules, powders, or liquids made from resins produced in the same establishment, in industry 2821.

301 TIRES AND INNER TUBES:

3011 Tires and Inner Tubes (S-D; C-99).—Establishments primarily engaged in manufacturing pneumatic casings, inner tubes, and solid and cushion tires for all types of vehicles, airplanes, farm equipment, and children's vehicles, as well as tire repair, and tire retreading (camelback) materials.

302 RUBBER FOOTWEAR:

3021 Rubber Footwear (S-93; C-90).—Establishments primarily engaged in manufacturing all-rubber footwear, waterproof fabric upper footwear, and other fabric upper footwear having rubber soles vulcanized to the uppers. Establishments primarily engaged in manufacturing rubber, composition, and fiber heels, soles, soling strips and related shoe making and repairing materials are classified in industry 3069.

303 RECLAIMED RUBBER:

3031 Reclaimed Rubber (S-D; C-77).—Establishments primarily engaged in reclaiming rubber from used tires, scrap, and miscellaneous waste rubber articles by processes which result in a devulcanized, depolymerized, or regenerated, replasticized product containing added ingredients. This product is sold for use as a raw material in the manufacture of rubber goods with or without a mixture with natural or synthetic rubber. Establishments primarily engaged in the assembly and wholesale of scrap rubber are classified in trade industries.

306 FABRICATED RUBBER PRODUCTS, N.E.C.:

3069 Fabricated Rubber Products, N.E.C. (S-86; C-89).—Establishments primarily engaged in manufacturing industrial and mechanical rubber goods, rubberized fabrics and vulcanized rubber clothing, and miscellaneous rubber specialties and sundries. Establishments primarily engaged in rebuilding and retreading tires are classified in industry 7534, that is, in nonmanufacturing.

307 MISCELLANEOUS PLASTICS PRODUCTS:

3079 Miscellaneous Plastics Products (S-92; C-80).—Establishments primarily engaged in molding primary plastics for the trade, in manufacturing film, sheets, sheeting, rods, tubes, and other stock shapes from purchased resins, and in fabricating miscellaneous finished plastics products. Establishments primarily engaged in manufacturing plastics materials in the form of sheets, rods, tubes, granules, powders, or liquids made from resins produced in the same establishment are classified in industry 2821, and those primarily engaged in manufacturing artificial leather in industry 2295.

31 LEATHER AND LEATHER PRODUCTS

This major group includes establishments engaged in tanning, currying, and finishing hides and skins, and establishments manufacturing finished leather and artificial leather products and some similar products made of other materials. Leather converters are also included; such converters purchase hides and skins and have them processed into leather on a contract basis by others.

311 LEATHER TANNING AND FINISHING:

3111 Leather Tanning and Finishing (S-99; C-100).—Establishments primarily engaged in tanning, currying, and finishing hides and skins into leather. Leather converters are classified in this industry.

312 INDUSTRIAL LEATHER BELTING AND PACKING:

3121 Industrial Leather Belting and Packing (S-89; C-84).—Establishments primarily engaged in manufacturing industrial leather products, such as transmission belting, mechanical packings, and textile leathers. Establishments primarily engaged in manufacturing leather gaskets are classified in industry 3293; rubber belting and packing are included in industry 3069; plastic belting and packing in industry 3079; and metallic packing in industry 3599.

313 BOOT AND SHOE CUT STOCK AND FINDINGS:

3131 Boot and Shoe Cut Stock and Findings (S-93; C-94).—Establishments primarily engaged in manufacturing leather soles, inner soles, and other boot and shoe cut stock and findings. This industry also includes finished wood heels. Establishments primarily engaged in manufacturing heels, soling strips, and soles made of rubber, composition, plastics, and fiber are classified in Major Group 30.

314 FOOTWEAR, EXCEPT RUBBER:

3141 Footwear, Except House Slippers and Rubber Footwear (S-99; C-99).—Establishments primarily engaged in the production of boots and shoes designed primarily for street, work, play, or sport wear. Establishments primarily engaged in the production of such protective footwear as rubbers, rubber boots, storm shoes, galoshes, and other footwear with rubber soles vulcanized to the uppers are classified in industry 3021; and house slippers in industry 3142. Footwear made by custom boot makers is covered in the census of business.

3142 House Slippers (S-90; C-85).—Establishments manufacturing house slippers of leather or other materials, except as noted. Establishments primarily engaged in making vulcanized rubber slippers (beach and shower slippers, scuffs, etc.) are classified

in industry 3021; wooden slippers including wooden clogs are classified in industry 2499; and paper bath slippers in industry 2649. Knitting mills producing slipper socks are classified in industry 2252.

315 LEATHER GLOVES AND MITTENS:

3151 Leather Dress, Semidress, and Work Gloves (S-81; C-89).—Establishments primarily engaged in manufacturing dress, semidress, and work gloves exclusively of leather. Establishments primarily engaged in manufacturing sporting and athletic gloves are classified in industry 3949; knit gloves in industry 2259; and dress, semidress, and work gloves and mittens of cloth, or cloth and leather combined, in industry 2381.

316 LUGGAGE:

3161 Luggage (S-95; C-94).—Establishments primarily engaged in manufacturing luggage of leather or other materials. Among the products included in this industry are suitcases, briefcases, trunks, hat boxes (except paper or paperboard), and camera and binocular cases. Establishments primarily engaged in manufacturing luggage hardware are classified in industry 3429.

317 HANDBAGS AND OTHER PERSONAL LEATHER GOODS:

3171 Women's Handbags and Purses (S-98; C-98).—Establishments primarily engaged in manufacturing women's handbags and purses of leather or other materials, except precious metal (industry 3911).

3172 Personal Leather Goods, Except Handbags and Purses (S-96; C-92).—Establishments primarily engaged in manufacturing small articles such as billfolds, keycases, and coin purses of leather or other materials, except precious metal (industry 3911).

319 LEATHER GOODS, N.E.C.:

3191 Leather Goods, N.E.C. (S-94; C-82).—Establishments primarily engaged in manufacturing leather goods, n.e.c., such as saddlery, harness, and whips; embossed leather goods; leather desk sets; and razor strops.

Establishments primarily engaged in manufacturing leather garments are classified in industry 2386; leather belts in industry 2387; leather gaskets in industry 3293; leather buffing and polishing wheels in industry 3291; and leather costume jewelry in industry 3961.

32 STONE, CLAY, AND GLASS PRODUCTS

This major group includes establishments engaged in manufacturing flat glass and other glass products, cement, structural clay products, pottery, concrete and gypsum products, cut stone products, abrasive and asbestos products, etc., from materials taken principally from the earth in the form of stone, clay, and sand. When separate reports are available for mines and quarries operated by manufacturing establishments classified in this major group, the mining activities are classified in mining industries; when separate reports are not available, the mining activities are classified with the manufacturing operations and classified herein.

321 FLAT GLASS:

3211 Flat Glass (S-90[11]; C-D).—Establishments primarily engaged in manufacturing flat glass, including plate glass, clear window glass, rolled glass, figured and wire glass, opalescent and obscured glass, and cathedral and skylight glass. This industry also includes establishments that produce laminated glass from glass produced in the same establishment. Establishments primarily engaged in manufacturing laminated glass from purchased flat glass are classified in industry 3231.

322 GLASS AND GLASSWARE, PRESSED OR BLOWN:

3221 Glass Containers (S-99; C-99).—Establishments primarily engaged in manufacturing glass containers for commercial packing and bottling, and for home canning. Products of this industry may be machine-made or hand-made and include ampoules, carboys, cosmetic jars, fruit jars, medicine bottles, milk bottles, vials, and beverage and beer bottles.

3229 Pressed and Blown Glass and Glassware, N.E.C. (S-96; C-97).—Establishments primarily engaged in manufacturing glass and glassware, n.e.c., pressed, blown, or shaped from glass produced in the same establishment. Establishments primarily engaged in manufacturing textile glass fibers are also included in this industry, but establishments primarily engaged in manufacturing glass wool insulation products are classified in industry 3296.

Establishments primarily engaged in the production of pressed lenses for headlights, beacons, and lanterns are also included in this industry, but establishments primarily engaged in the production of optical lenses are classified in industry 3831. Establishments primarily engaged in manufacturing glass containers are classified in industry 3221, and complete electric light bulbs in industry 3641.

323 GLASS PRODUCTS MADE OF PURCHASED GLASS:

3231 Glass Products Made of Purchased Glass (S-90[11]; C-D).—Establishments primarily engaged in manufacturing glass products from purchased glass, including laminated or safety glass, stained, leaded, ornamented, and decorated glass; mirrors; cutware; scientific-apparatus glass; glass novelties; mosaic glass; round glass; cut, beveled, and etched glass; and glass watch crystals. Establishments primarily engaged in manufacturing optical lenses and ophthalmic lenses are classified in Major Group 38, Instruments and Related Products; glass fabrics in industry 2221; glass insulation in industry 3296; glass fishing rods in industry 3949.

324 CEMENT, HYDRAULIC:

3241 Cement, Hydraulic (S-99; C-100).—Establishments primarily engaged in manufacturing hydraulic cement, including portland, natural, masonry, and puzzolan cements.

325 STRUCTURAL CLAY PRODUCTS:

3251 Brick and Structural Clay Tile (S-98; C-98).—Establishments primarily engaged in manufacturing clay building brick, vitrified paving brick and hollow structural tile. Establishments primarily engaged in manufacturing clay firebrick are classified in industry 3255; nonclay firebrick in industry 3297; sand lime brick in industry 3299; and glass brick in industry 3229.

3253 Ceramic Wall and Floor Tile (S-95; C-99).—Establishments primarily engaged in manufacturing ceramic mosaic tile, glazed wall tile, quarry tile, and other types of ceramic wall and floor tile. Establishments primarily engaged in manufacturing hollow structural tile and ceramic and salt glazed facing tile are classified in industry 3251; drain tile in industry 3259; asphalt floor tile in industry 3292; rubber tile in industry 3069; cork wall and floor tile in industry 2499; and other hard surface floor coverings in industry 3982. China and earthenware bathroom accessories (towel racks, soap cups, etc.) are classified in industry 3261.

3255 Clay Refractories (S-91; C-93).—Establishments primarily engaged in manufacturing clay firebrick, crucibles, and other heat-resisting clay products such as glass-house tank blocks, stoppers, floaters, and rings. Establishments primarily engaged in manufacturing nonclay refractories, as well as all graphite refractories whether of carbon bond or ceramic bond, are classified in industry 3297.

3259 Structural Clay Products N.E.C. (S-89; C-95).—Establishments primarily engaged in manufacturing clay sewer pipe and kindred products made of clay, and structural clay products, n.e.c., such as architectural terra cotta, roofing tile, stove lining, flue lining, chimney pipes, thimbles and tops, wall coping, segment blocks, drain tile and adobe brick. Establishments primarily engaged in manufacturing concrete sewer pipe are classified in industry 3272; cast iron sewer pipe in industry 3321; and plastic pipe in industry 3079.

326 POTTERY AND RELATED PRODUCTS:

3261 Vitreous China Plumbing Fixtures and China and Earthenware Fittings and Bathroom Accessories (S-97; C-97).—Establishments primarily engaged in manufacturing china plumbing fixtures and china and earthenware fittings and bathroom accessories.

3262 Vitreous China Table and Kitchen Articles (S-90; C-91).—Establishments primarily engaged in manufacturing vitreous china table and kitchen articles for use in households and in hotels, restaurants, and other commercial institutions for preparing, serving, or storing food or drink. Establishments primarily engaged in manufacturing fine (semivitreous) types of earthenware (whiteware) table and kitchen articles are classified in industry 3263.

3263 Fine Earthenware (Whiteware) Table and Kitchen Articles (S-92; C-91).—Establishments primarily engaged in manufacturing fine (semivitreous) types of earthenware table and kitchen articles for preparing, serving, or storing food or drink. Establishments primarily engaged in manufacturing vitreous china table and kitchen articles are classified in industry 3262.

3264 Porcelain Electrical Supplies (S-91; C-95).—Establishments primarily engaged in manufacturing porcelain electrical insulators, molded porcelain parts for electrical devices, steatite electrical products and other electrical supplies from clay and other ceramic materials.

3269 Pottery Products, N.E.C. (S-87; C-89).—Establishments primarily engaged in firing and decorating white china and earthenware for the trade and manufacturing art and ornamental pottery, industrial and laboratory pottery, stoneware and coarse earthenware table and kitchen articles, unglazed red earthenware florists' articles, and other pottery products, n.e.c.

327 CONCRETE, GYPSUM AND PLASTER PRODUCTS:

3271 Concrete Brick and Block (S-92; C-84).—Establishments primarily engaged in manufacturing concrete building blocks and brick from a combination of cement and aggregate. Contractors engaged in concrete construction work are classified in the construction industries, and building materials dealers primarily engaged in mixing and delivering ready mixed concrete in industry 3273.

3272 Concrete Products, Except Block and Brick (S-94; C-94).—Establishments primarily engaged in manufacturing concrete products, except block and brick, from a combination of cement and aggregate. Contractors engaged in concrete construction work are classified in the construction industries, and building materials dealers primarily engaged in mixing and delivering ready mixed concrete in industry 3273.

3273 Ready Mixed Concrete (S-92; C-98).—Establishments primarily engaged in manufacturing Portland cement concrete, manufactured and delivered to a purchaser in a plastic and unhardened state. This industry includes production and sale of central mixed concrete, shrink mixed concrete and transit mixed concrete.

3274 Lime (S-82; C-94).—Establishments primarily engaged in manufacturing quicklime, hydrated lime, and dead burned dolomite from limestone, dolomite shells, or other substances.

3275 Gypsum Products (S-97; C-98).—Establishments primarily engaged in manufacturing plaster, plasterboard, and other products composed wholly or chiefly of gypsum.

328 CUT STONE AND STONE PRODUCTS:

3281 Cut Stone and Stone Products (S-94; C-99).—Establishments primarily engaged in cutting, shaping, and finishing marble, granite, slate, and other stone for building and miscellaneous uses. Establishments primarily engaged in buying or selling partly finished monuments and tombstones, but performing no work on the stones other than lettering, finishing, or shaping to custom order, are classified in trade industries. The cutting of grindstones, pulpstones, and whetstones at the quarry is classified in mining industries.

329 ABRASIVE, ASBESTOS, AND MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS:

3291 Abrasive Products (S-70[11]; C-95).—Establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials, and other abrasive products. The cutting of grindstones, pulpstones, and whetstones at the quarry is classified in mining industries.

3292 Asbestos Products (S-95; C-91).—Establishments primarily engaged in manufacturing asbestos textiles, asbestos friction materials, vinyl asbestos floor tile and other commodities composed wholly or chiefly of asbestos, except asbestos paper (industry 2661), steam and other packing, pipe and boiler covering, and gaskets (industry 3293).

3293 Steam and Other Packing, and Pipe and Boiler Covering (S-81; C-78).—Establishments primarily engaged in manufacturing packing for steam, water, and other pipe joints, and for engines, air compressors, etc.; gaskets (all types); and asbestos insulating materials. Establishments primarily engaged in manufacturing leather packing are classified in industry 3121, rubber packing in industry 3069, metal packing in industry 3599, and mineral wool and insulation products in industry 3296.

3295 Minerals and Earths, Ground or Otherwise Treated (S-94; C-86).—Establishments operating without a mine and primarily engaged in crushing, grinding, pulverizing, or otherwise preparing clay, ceramic, and refractory minerals (of the type in minerals Industry Group 145); barite (mined by industry 1472); miscellaneous nonmetallic minerals, except fuels (talc, gypsum, graphite, and other minerals of the type classified in minerals Industry Group 149); or in crushing slag or preparing roofing granules. However, establishments preparing such nonmetallic minerals or roofing granules in conjunction with a mine at the site are classified in the mineral industries. The crushing and grinding of stone, the preparation of sand and gravel (minerals Industry Group 144) and of chemical and fertilizer minerals, except barite (minerals Industry Group 147, except industry 1472) are classified in the mineral industries whether or not the establishment includes a mine. The beneficiation or preparation of metallic ores and the cleaning and grading of coal at the mine or at separately operated preparation plants are classified in the mineral industries.

The code number for this industry in the Standard Industrial Classification Manual is unchanged, but the content of the industry has been slightly changed from the classification system used in 1958. The composition of the industry as now constituted, compared with that under the classification system followed in the 1958 census is due principally to (1) the reclassification of exfoliated vermiculite from industry 3296 to industry 3295 and (2) the inclusion of roofing granules produced in conjunction with mining operations in the mineral industries for 1963. In prior years these roofing granule plants were included in industry 3295.

3296 Mineral Wool (S-90; C-96).—Establishments primarily engaged in manufacturing mineral wool and mineral wool insulation products made of such silicious materials as rock, slag, and glass, or combinations thereof. Establishments primarily engaged in manufacturing asbestos insulation products are classified in industries 3292 and 3293, textile glass fibers in industry 3229, and exfoliated vermiculite products in industry 3295. Exfoliated vermiculite was reclassified from industry 3296 (in 1958) to industry 3295.

3297 Nonclay Refractories (S-94; C-88).—Establishments primarily engaged in manufacturing refractories and crucibles made of materials other than clay. This industry also includes establishments primarily engaged in manufacturing all graphite refractories, whether of carbon bond or ceramic bond. Establishments primarily engaged in manufacturing clay refractories are classified in industry 3255.

3299 Nonmetallic Mineral Products, NEC (S-86; C-96).—Establishments primarily engaged in the factory production of statuary and art goods made of plaster of Paris and papier-mache and in manufacturing sand lime products, sheet mica products, and other nonmetallic mineral products, n.e.c.

33 PRIMARY METAL INDUSTRIES

This major group includes establishments engaged in the smelting and refining of ferrous and nonferrous metals from ore, pig, or scrap; in the rolling, drawing, and alloying of ferrous and nonferrous metals; in the manufacture of castings, forgings, and other basic products of ferrous and nonferrous metals; and in the manufacture of nails, spikes, and insulated wire and cable. This major group also includes the production of coke.

331 BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS:

3312 Blast Furnaces (Including Coke Ovens), Steel Works and Rolling Mills (S; C)[12].—Establishments primarily engaged in manufacturing hot metal, pig iron, silvery pig iron, and ferroalloys from iron ore and iron and steel scrap; converting pig iron, scrap iron and scrap steel into steel; and in hot rolling iron and steel into basic shapes such as plates, sheets, strips, rods, bars and tubing. Merchant blast furnaces and byproduct or beehive coke ovens are also included in this industry.

Included in this industry are all establishments engaged in the manufacture of blast furnace ferroalloys. However, establishments which manufacture ferro or nonferrous additive alloys by electrometallurgical process are classified in industry 3313. Also, establishments which draw wire from purchased rod and bar; establishments which perform only cold rolling, drawing or finishing operations; and establishments which produce welded, seamless, and heavy riveted pipe from purchased materials are not included in industry 3312, but are included in industries 3315, 3316, and 3317, respectively.

3313 Electrometallurgical Products (S-85-90; C-77)[13].—Establishments primarily engaged in manufacturing ferro and nonferrous additive alloys by electrometallurgical processes, including high percentage ferroalloys and high percentage nonferrous additive alloys. Ferroalloys and other additives produced in blast furnaces are included in industry 3312.

3315 Steel Wire Drawing and Steel Nails and Spikes (S-89; C-30)[13].—Establishments primarily engaged in drawing wire from purchased iron or steel rods, bars, or wire and which may be engaged in the further manufacture of products made from wire; and those primarily engaged in manufacturing steel nails and spikes from purchased materials. Rolling mills engaged in the production of ferrous wire from wire rods or hot rolled bars produced in the same establishment are classified in industry 3312. Establishments primarily engaged in drawing nonferrous wire are classified in Industry Group 335.

3316 Cold Rolled Sheet, Strip, and Bars (S-94; C-20)[13].—Establishments primarily engaged in (1) cold rolling steel sheets and strip from purchased hot rolled sheets; (2) cold drawing steel bars and steel shapes from purchased hot rolled steel bars; and (3) producing other cold finished steel. Establishments primarily engaged in the production of steel, including hot rolled steel sheets, and further cold rolling such sheets are included in industry 3312.

3317 Steel Pipe and Tubes (S-91; C-37).—Establishments primarily engaged in the production of welded or seamless steel pipe and heavy riveted steel pipe from purchased materials. Establishments primarily engaged in the production of steel, including steel skelp or steel blanks, tube rounds, or pierced billets are classified in industry 3312.

332 IRON AND STEEL FOUNDRIES:—This group includes establishments primarily engaged in manufacturing iron and steel castings. These establishments generally operate on a job or order basis, manufacturing castings for sale to others or for interplant transfer. Establishments which produce iron and steel castings and which are also engaged in fabricating operations such as machining, assembling, etc., in manufacturing a specified product are classified in the industry of the specified product. Iron and steel castings are made to a considerable extent by establishments, classified in other industries, that operate foundry departments for the production of castings for incorporation, in the same establishment, into such products as stoves, furnaces, plumbing fixtures, motor vehicles, etc. Establishments primarily engaged in the manufacture and rolling of steel and also making steel castings are classified in industry 3312. Establishments primarily engaged in manufacturing nonferrous castings are classified in Industry Group 336.

3321 Gray Iron Foundries (S-93; C-88).—Establishments primarily engaged in manufacturing gray iron castings, including cast iron pressure and soil pipe and fittings. Establishments primarily engaged in manufacturing valves and fittings, except plumbers' brass goods and fittings, are classified in industry 3494.

3322 Malleable Iron Foundries (S-87; C-87).—Establishments primarily engaged in manufacturing malleable iron castings.

3323 Steel Foundries (S-85; C-89).—Establishments primarily engaged in manufacturing steel castings.

333 PRIMARY SMELTING AND REFINING OF NONFERROUS METALS AND ALLOYS:

3331 Primary Smelting and Refining of Copper (S; C)[14].—Establishments primarily engaged in smelting copper from the ore, and in refining copper by electrolytic or other processes. Establishments primarily engaged in rolling, drawing or extruding copper are classified in industry 3351.

3332 Primary Smelting and Refining of Lead (S; C)[14].—Establishments primarily engaged in smelting lead from the ore and in refining lead by any process. Establishments primarily engaged in rolling, drawing, or extruding lead are classified in industry 3356.

3333 Primary Smelting and Refining of Zinc (S-92; C-81[15]).—Establishments primarily engaged in smelting zinc from the ore, and in refining zinc, by any process. Establishments primarily engaged in rolling, drawing or extruding zinc are classified in industry 3356.

3334 Primary Production of Aluminum (S-100; C-75[16]).—Establishments primarily engaged in producing aluminum from alumina, and in refining aluminum by any process. Establishments primarily engaged in rolling, drawing or extruding aluminum are classified in industry 3352.

3339 Primary Smelting and Refining of Nonferrous Metals, NEC (S-83; C-39[17]).—Establishments primarily engaged in smelting and refining nonferrous metals, n.e.c. Establishments primarily engaged in rolling, drawing, and extruding these nonferrous primary metals are classified in industry 3356, and the production of bullion at the site of the mine is classified in the mining industries.

334 SECONDARY SMELTING, REFINING, AND ALLOYING OF NONFERROUS METALS AND ALLOYS:

3341 Secondary Smelting, Refining, and Alloying of Nonferrous Metals and Alloys (S-94; C-26[18]).—Establishments primarily engaged in recovering nonferrous metals and alloys from new and used scrap and dross, but which are not engaged in further fabrication. This industry includes establishments engaged in both the recovery and alloying of precious metals. Plants engaged in the recovery of tin through secondary smelting and refining, as well as by chemical processes, are included in this industry. Establishments primarily engaged in assembling, sorting, and breaking up scrap metal, without smelting and refining, are classified in trade industries.

335 ROLLING, DRAWING, AND EXTRUDING OF NONFERROUS METALS:

3351 Rolling, Drawing, and Extruding of Copper (S-90; C-91).—Establishments primarily engaged in rolling, drawing and extruding copper, brass, bronze and other copper-base alloy basic shapes such as plate, sheet, strip, bar, and tubing. Establishments primarily engaged in recovering copper and its alloys from scrap or dross are classified in industry 3341.

3352 Rolling, Drawing and Extruding of Aluminum (S-85; C-93[19]).—Establishments primarily engaged in rolling, drawing and and extruding aluminum and aluminum-base alloy basic shapes such as plate, sheet, bar, tubing and foil.

3356 Rolling, Drawing and Extruding of Nonferrous Metals, Except Copper and Aluminum (S-84; C-81[20]).—Establishments primarily engaged in rolling, drawing and extruding nonferrous metals other than copper (industry 3351), and aluminum (industry 3352). The products of this industry are produced in the form of basic shapes, such as plate, sheet, strip, bar and tubing. Establishments primarily engaged in recovering nonferrous metals and alloys from scrap or dross are classified in industry 3341; in manufacturing gold, silver, tin and other foils, except aluminum, in industry 3497; and aluminum foil in industry 3352.

3357 Drawing and Insulating of Nonferrous Wire (S-99; C86; [21]).—Establishments primarily engaged in drawing, drawing and insulating, and insulating wire and cable of nonferrous metals from purchased wire bars, rods or wire.

336 NONFERROUS FOUNDRIES:—These foundry industries comprise establishments primarily engaged in manufacturing aluminum castings, including cast aluminum cooking utensils (3361), brass, bronze, and copper castings including unmachined bearings and bushings (3362), and other nonferrous castings (3369). Those primarily engaged in manufacturing iron and steel castings are classified in Industry Group 322.

For these industries, captive production (that is, the tonnage of castings produced for incorporation into the final product of the plant or company) is a particularly important factor. Distinction is made between rough castings and castings which are machined or further processed and incorporated into other products. The removal of gates, risers, sprues, and tumbling, dipping, and sand blasting do not constitute machining. Plants primarily engaged in manufacturing castings are included in the foundry industries; plants primarily engaged in further processing castings into parts for metal products or machinery are classified in other major groups.

For the 1963 and 1958 Censuses of Manufactures separate establishment reports were received from all commercial (jobbing) foundries and from those captive foundries which were operated as separate establishments by the reporting companies. These two groups comprise the types of establishments included in industries 3361, 3362, and 3369. However, where the captive foundry operation was completely integrated with the operations of the entire plant, no separate establishment report was received

for the foundry activity. In these instances data were obtained on the tonnage of castings produced and consumed and on the number of employees usually engaged in the captive foundry operation. However, establishments with such foundry departments were classified on the basis of the plant's final product and accordingly, the general statistics on employment, payrolls, cost of materials, etc., are included in the data for such industries as 3432 and 3494,etc.

3361 Aluminum Castings (S-81; C-83).—Establishments primarily engaged in manufacturing castings and die castings of aluminum.

3362 Brass, Bronze, Copper, Copper-Base Alloy Castings (S-84; C-78).—Establishments primarily engaged in manufacturing castings and die castings of copper and copper-base alloy.

3369 Nonferrous Castings, N.E.C. (S-78; C-75).—Establishments primarily engaged in manufacturing castings and die castings of nonferrous materials except aluminum, copper and copper-base alloys.

339 MISCELLANEOUS PRIMARY METAL INDUSTRIES:

3391 Iron and Steel Forgings (S-89; C-69[22]).—Establishments primarily engaged in manufacturing light and heavy board drop, steam hammer, upset, and press iron and steel forgings with or without the use of dies. Rolling mills engaged in the production of iron and steel forgings are classified in industry 3312.

3392 Nonferrous Forgings (S-69; C-55).—Establishments primarily engaged in manufacturing, with or without the use of dies, forgings of aluminum, titanium, copper and other nonferrous metals and alloys.

3399 Primary Metal Industries, N.E.C. (S-93; C-87).—Establishments primarily engaged in manufacturing primary metal products, n.e.c., such as nonferrous nails, brads, and spikes; metal powder, flakes, and paste; and establishments primarily engaged in heat treating of metal for the trade; also those establishments primarily engaged in reclaiming metallics from slag.

34 FABRICATED METAL PRODUCTS, EXCEPT ORDNANCE, MACHINERY, AND TRANSPORTATION EQUIPMENT

This major group includes establishments engaged in fabricating ferrous and nonferrous metal products such as metal cans, tinware, hand tools, cutlery, general hardware, nonelectric heating apparatus, fabricated structural metal products, metal stampings, and a variety of metal and wire products,n.e.c. Certain important segments of the metal fabricating industries are classified in other major groups such as ordnance in Major Group 19; machinery in in Major Groups 35 and 36; transportation equipment in Major Group 37; professional, scientific, and controlling instruments, watches and clocks in Major Group 38; and jewelry and silverware in Major Group 39. Establishments primarily engaged in producing ferrous and nonferrous metals and their alloys are classified in Major Group 33.

341 METAL CANS:

3411 Metal Cans (S-97; C-98).—Establishments primarily engaged in manufacturing metal cans from purchased tinplate, terneplate, blackplate, or enameled sheet metal. Establishments primarily engaged in the manufacture of composite cans made partially of metal and partly of nonmetallic materials (such as fiberboard) are excluded from this industry.

342 CUTLERY, HAND TOOLS, AND GENERAL HARDWARE:

3421 Cutlery (S-89; C-97).—Establishments primarily engaged in manufacturing cutlery. Establishments primarily engaged in manufacturing table cutlery made entirely of metal are classified in industry 3914; those manufacturing electric razors in industry 3634; and those manufacturing hair clippers for human use in industry 3999, and for animal use in industry 3522.

3423 Hand and Edge Tools, Except Machine Tools and Hand Saws (S-87; C-84).—Establishments primarily engaged in manufacturing files and other hand and edge tools for metalworking, woodworking, and general maintenance. Establishments primarily engaged in manufacturing saws are classified in industry 3425; and metal cutting dies and power driven hand tools, and attachments and accessories for machine tools in Major Group 35.

3425 Hand Saws and Saw Blades (S-78; C-85).—Establishments primarily engaged in manufacturing hand saws and saw blades for hand and power driven saws. Establishments primarily engaged in manufacturing power driven sawing machines are classified in Major Group 35.

3429 Hardware,N.E.C. (S-91; C-93).—Establishments primarily engaged in manufacturing miscellaneous metal products usually termed "hardware" and n.e.c. Establishments primarily engaged in manufacturing bolts and nuts are classified in industry 3452, nails and spikes in Major Group 33, cutlery in industry 3421, hand tools in industry 3423, and pole line and transmission hardware in Major Group 36.

343 HEATING APPARATUS (EXCEPT ELECTRIC) AND PLUMBING FIXTURES:

3431 Enameled Iron and Metal Sanitary Ware (S-84; C-91).—Establishments primarily engaged in manufacturing enameled iron, cast iron, or pressed metal sanitary ware. Establishments primarily engaged in manufacturing vitreous and semivitreous pottery sanitary ware are classified in industry 3261; and those manufacturing porcelain enameled kitchen, household, and hospital ware in industry 3461.

This industry includes establishments which fall into two significantly different categories, namely those producing cast iron plumbing fixtures and those producing metal fixtures of pressed metal. Accordingly, the manufacturing plants included in this industry involve different manufacturing processes depending upon the line of products produced. Those fixture plants producing cast iron fixtures include significant foundry operations while the pressed metal fixture plants are more closely allied to metal fabricating plants producing their product by forming processes (stamping, drawing, etc.).

The operations of the largest establishments in this industry cover the entire production process including the casting of the fixture through the machining, finishing, and assembly operations. In general these processes are carried on at a single manufacturing plant. However, in a few instances the foundry operations were performed at separate locations and, accordingly, those separate foundries were classified in the foundry industries (SIC industries 3321, 3322, 3323, 3361, 3362 and 3369). In the latter case the plants classified in this industry would be limited to machining and finishing operations on castings received from their associated plants.

3432 Plumbing Fixture Fittings and Trim (Brass Goods) (S-90; C-83).—Establishments primarily engaged in manufacturing plumbing fixture fittings and trim (brass goods). Establishments primarily engaged in the manufacture of steam or water line valves are classified in industry 3494.

3433 Heating Equipment, Except Electric (S-76; C-81).—Establishments primarily engaged in manufacturing heating equipment for all purposes other than power, including all gas, oil, and stoker coal fired equipment for the automatic utilization of gaseous, liquid, and solid fuels. Establishments primarily engaged in manufacturing electric stoves and ranges are classified in industry 3631; boiler shops primarily engaged in the production of industrial, power and marine boilers in industry 3443; and industrial process furnaces and ovens in industry 3567.

344 FABRICATED STRUCTURAL METAL PRODUCTS:

3441 Fabricated Structural Steel (S-86; C-89).—Establishments primarily engaged in manufacturing fabricated iron and steel or other metal for structural purposes, for bridges, buildings, and sections for ships, boats and barges. Establishments primarily engaged in manufacturing metal doors, sash, frames, molding and trim are classified in industry 3442; and fabrication work done by construction contractors at the site of construction is classified in construction industries.

3442 Metal Doors, Sash, Frames, Molding and Trim (S-88; C-94).—Establishments primarily engaged in manufacturing ferrous and nonferrous metal and metal covered doors and sash, window and door frames and screens, molding and trim.

3443 Fabricated Plate Work (Boiler Shops) (S-89; C-83).—Establishments primarily engaged in manufacturing power and marine boilers, pressure and nonpressure tanks, processing and storage vessels, heat exchangers, weldments and similar products by the process of cutting, forming and joining metal plates, shapes, bars, sheet, pipe mill products and tubing to

custom or standard design for factory or field assembly. Establishments primarily engaged in manufacturing nonelectric heating apparatus other than power boilers are classified in industry 3433, and household cooking apparatus in industry 3631.

3444 Sheet Metal Work (S-88; C-78).—Establishments primarily engaged in manufacturing sheet metal work for buildings (not including fabrication work done by construction contractors at the place of construction), and manufacturing sheet metal stovepipes, light tanks, etc. Establishments in the sheet metal field are frequently engaged in activities which overlap the economic divisions of manufacturing, wholesale, service and construction, and some difficulty is experienced in distinguishing a sheet metal manufacturing establishment from other sheet metal wholesalers. Establishments performing manufacturing operations incidental to their installation or contracting business are excluded from the census of manufactures. Conversely, many of the plants included in industry 3444 are engaged to a secondary extent in wholesaling or installing sheet metal items.

3446 Architectural and Ornamental Metal Work (S-86; C-71).—Establishments primarily engaged in manufacturing architectural and ornamental metal work of ferrous and nonferrous metals, such as stairs and staircases, open steel flooring (grating), fire escapes, grills, railings, and fences and gates except wire. Establishments primarily engaged in manufacturing prefabricated and portable metal buildings and parts, and miscellaneous metal work are classified in industry 3449.

This industry was not defined in the SIC for 1958 but was then part of industry 3449.

3449 Miscellaneous Metal Work (S-89; C-68).—Establishments primarily engaged in manufacturing miscellaneous ferrous and nonferrous metal work, such as prefabricated and portable metal buildings and parts, metal plaster bases, fabricated bar joists and concrete reinforcing bars, and prefabricated exterior metal panels.

This industry was redefined in the SIC for 1963. Industry 3446, shown above, was part of industry 3449 in 1958.

345 SCREW MACHINE PRODUCTS AND BOLTS, NUTS, SCREWS, RIVETS AND WASHERS:

3451 Screw Machine Products (S-97; C-90).—Establishments primarily engaged in manufacturing automatic or hand screw machine products from rod, bar, or tube stock of metal, fiber, plastics, or other material. The products of this industry consist of a wide variety of unassembled parts and are usually manufactured on a job or order basis. Establishments primarily engaged in manufacturing standard bolts, nuts, rivets, screws, or other industrial fasteners, on headers, threaders, and nut forming machines are classified in industry 3452.

Industry 3451 includes establishments producing a wide variety of items such as small machinery parts, etc., on hand operated and automatic screw machines from rod, bar and tube stock and from castings and forgings. These products are produced almost entirely on a job or order basis. Included are screw machine departments or plants of companies primarily engaged in producing finished end products where such activities could be reported separately. However, in many instances captive screw machine operations were so integrated with other activities that separate reports were not obtained and the entire establishment was classified on the basis of its primary products.

3452 Bolts, Nuts, Washers, and Rivets (S-92; C-90).—Establishments primarily engaged in manufacturing bolts, nuts, screws, rivets, washers, formed and threaded wire goods, and special industrial fasteners. Rolling mills engaged in manufacturing similar products are classified in Major Group 33, and establishments primarily engaged in manufacturing screw machine products in industry 3451.

Plants included in industry 3452 in general are engaged in the manufacture of bolts, nuts, screws, and rivets of standard types and sizes on heading, threading, and nut forming machines. These establishments may be also engaged in the production of special industrial fasteners which require special or added operations or the use of special tools and fixtures. These items include bolts, nuts, screws, etc., of nonstandard types and sizes and special fasteners made by stamping and other forming processes. To a lesser extent these plants manufacture standard type bolts, nuts, screws, etc., on automatic and hand operated screw machines.

346 METAL STAMPINGS:

3461 Metal Stampings (S-84; C-86).—Establishments primarily engaged in manufacturing metal stampings by the use of tools, dies, jigs, and fixtures to punch, draw, form, or otherwise modify materials under pressure in a machine (primarily punch and draw presses).

Establishments in industry 3461 produce both job stampings and finished end products. Job stampings are made from materials owned by the stamping establishments as well as from materials owned by the customer and processed by the stamping establishments on a contract or commission basis. These stampings are mainly parts which are sold to manufacturers for incorporation into any of a wide variety of products such as refrigerators, agricultural machinery, radio and television sets. Finished end products manufactured by establishments in this industry include cooking, kitchen, and hospital utensils (including domestic pressure cookers and porcelain enameled utensils), pails, ash cans, garbage cans, perforated metal products, metal commercial and home canning closures as well as a large variety of miscellaneous items.

Industry 3461 includes the stamping departments of establishments primarily engaged in producing fabricated metal products where such stamping activities could be reported separately. However, where captive stamping operations were closely integrated with other activities, such as in the production of household appliances, farm equipment, motor vehicles, etc., separate reports were not obtained.

347 COATING, ENGRAVING, AND ALLIED SERVICES:

3471 Electroplating, Plating, Polishing, Anodizing, and Coloring (S^{23}; C^{24}).—Establishments primarily engaged in all types of electroplating, plating, anodizing, and coloring, and finishing of metals and formed products for the trade. Most of the work done in this industry is done on materials owned by others.

3479 Coating, Engraving, and Allied Services, N.E.C. (S^{23}; C^{24}).—Establishments primarily engaged in performing the following types of services on metals: (1) enameling, lacquering, and varnishing metal products for the trade; (2) hot dip galvanizing of mill sheets, plates and bars, castings, and formed products fabricated of iron and steel; in hot dip coating such items with aluminum, lead, or zinc; in retinning cans and utensils; (3) in engraving, chasing and etching jewelry, silverware, notarial and other seals, and other metal products for the trade and for job contracting for purposes other than printing; (4) and other metal services, n.e.c. Establishments primarily engaged in electroplating, plating, polishing, anodizing, coloring, and finishing of metals and formed products for the trade are classified in industry 3471; and those producing porcelain enameled products in industry 3461.

Industry 3479 includes establishments engaged primarily in enameling materials owned by others. Establishments primarily engaged in manufacturing vitreous-enameled products from their own materials are included in industry 3461. In addition, industry 3479 covers both vitreous and other types of enameling (such as baked enameling) whereas industry 3461 includes only vitreous-enameling establishments as well as those producing other types of metal stampings.

Industry 3479 includes establishments primarily engaged in galvanizing iron and steel sheets or formed products; in coating iron sheets or formed products with aluminum, lead, or zinc; and in retinning cans and utensils. Most of the work done in this industry is done on materials owned by others. Rolling mills engaged in galvanizing, tinning, and other coating are classified in industry 3312, and establishments primarily engaged in manufacturing galvanized steel wire, from purchased metal rods or bars, are classified in industry 3315.

Industry 3479 includes establishments primarily engaged in engraving, chasing, and etching jewelry, silverware, notarial seals, and other metal products for the trade, for purposes other than printing. Establishments primarily engaged in preparing metal lithographic plates and in printing from such media are classified in industry 2752; establishments primarily engaged in engraving and etching steel and copper plates and in using these plates to print stationary, visiting cards, etc., are included in industry 2753; and establishments primarily engaged in preparing photoengraved plates (halftones and linecuts) are classified in industry 2793.

348 MISCELLANEOUS FABRICATED WIRE PRODUCTS:

3481 Miscellaneous Fabricated Wire Products (S-93; C-65[25]).—Establishments primarily engaged in manufacturing miscellaneous fabricated wire products from purchased wire. Rolling mills engaged in manufacturing wire products are classified in Major Group 33; establishments manufacturing nonferrous wire nails and spikes in industry 3399; those drawing and insulating nonferrous wire in industry 3357; and those assembling wire bedsprings or seats are classified in Major Group 25.

349 MISCELLANEOUS FABRICATED METAL PRODUCTS:

3491 Metal Shipping Barrels, Drums, Kegs, and Pails (S-92; C-86).—Establishments primarily engaged in manufacturing ferrous and nonferrous shipping barrels, drums, kegs, and pails.

3492 Safes and Vaults (S-81; C-90-95).—Establishments primarily engaged in manufacturing fire or burglary resistive steel safes and vaults (except concrete grave vaults, industry 3272, and metal grave vaults, industry 3988), and similar fire or burglary resistive products.

3493 Steel Springs (S-91; C-67).—Establishments primarily engaged in manufacturing leaf springs, hot wound springs and coiled flat springs. Establishments primarily engaged in manufacturing wire springs are classified in industry 3481, and rolling mills manufacturing steel springs in industry 3312.

3494 Valves and Pipe Fittings, Except Plumbers' Brass Goods (S-86; C-85).—Establishments primarily engaged in manufacturing valves for controlling the flow of liquids or gases in pipes and mains, and for machinery. Establishments primarily engaged in manufacturing faucets, spigots, and similar plumbers' brass goods and fittings are classified in industry 3432.

3496 Collapsible Tubes (S-88; C-100).—Establishments primarily engaged in manufacturing collapsible tubes defined as cylindrical containers for viscous products, made of thin flexible metal, usually of tin, tin lined lead, lead, lead-tin alloy, or aluminum, with integral shoulder and neck, provided with an appropriate size opening in the throat, and usually with a screw cap made of plastic material for closure over the neck.

3497 Metal Foil and Leaf (S-84; C-45).—Establishments primarily engaged in manufacturing gold, silver, tin and other metal foil (including converted metal foil) and leaf. Fstablishments primarily engaged in manufacturing plain aluminum foil are classified in industry 3352.

3498 Fabricated Pipe and Fabricated Pipe Fittings (S-92; C-91).—Establishments primarily engaged in fabricating pipe and pipe fittings from purchased pipe, by cutting, threading, bending, etc. Establishments primarily engaged in manufacturing cast iron pipe and fittings, including cast and forged pipe fittings which have been machined and threaded, are classified in industry 3321; welded and heavy riveted pipe in industry 3317; and seamless steel pipe in industry 3317. Establishments primarily engaged in manufacturing products such as banisters, railings, and guards from pipe are classified in industry 3446.

3499 Fabricated Metal Products, N.E.C. (S-89; C-62).—Establishments primarily engaged in manufacturing fabricated metal products, n.e.c. Establishments primarily engaged in manufacturing advertising novelties are classified in industry 3993. Specific products of this industry include ammunition boxes, metal strapping, aluminum giftware (hammered), metal bookends, ladders, and fabricated railroad track equipment, such as switches, crossings, etc. Establishments primarily engaged in manufacturing castings or forgings are classified in Major Group 33; hardware in industry 3429; metal stampings in industry 3461; machine and equipment parts in Major Group 35 and Major Group 36.

35 MACHINERY, EXCEPT ELECTRICAL

This major group includes establishments engaged in manufacturing machinery and equipment,other than electrical equipment (Major Group 36) and transportation equipment (Major Group 37). Machines powered by built-in or detachable motors ordinarily are included in this major group, with the exception of electrical household appliances (Major Group 36). Portable tools, both electric and pneumatic powered, are included in this major group, but hand tools are classified in Major Group 34.

351 ENGINES AND TURBINES:

3511 Steam Engines; Steam, Gas, and Hydraulic Turbines; and Steam, Gas, and Hydraulic Turbine Generator Set Units (S-85; C-82).—Establishments primarily engaged in manufacturing steam engines; steam turbines; hydraulic turbines; gas turbines except aircraft; and complete steam, gas, and hydraulic turbine generator sets units. Establishments primarily engaged in building or rebuilding locomotives are classified in industry 3741; and those manufacturing nonautomotive type generators which are not a part of a turbine generator set in industry 3621.

3519 Internal Combustion Engines, N.E.C. (S-86; C-86).—Establishments primarily engaged in manufacturing diesel, semi-diesel, or other internal combustion engines, n.e.c., for stationary, marine, traction, and other uses. Establishments primarily engaged in manufacturing aircraft engines, including rocket engines, are classified in industry 3722, automotive engines (except diesel) in SIC industry 3714 (Census industry 3717), and engine generator sets in industry 3621.

352 FARM MACHINERY AND EQUIPMENT:

3522 Farm Machinery and Equipment (S-89; C-95).—Establishments primarily engaged in manufacturing farm machinery, including equipment and wheel tractors, for use in the preparation and maintenance of the soil; planting and harvesting of the crop; preparing, on the farm, crops for market; or for use in performing other farm operations and processes. This industry includes wheel tractors, except contractors' off-highway type which are classified in industry 3531. Establishments primarily engaged in manufacturing industrial trucks, tractors, and trailers used for handling materials in industrial plants, depots, and docks are classified in industry 3537; and farm hand tools in Industry Group 342.

353 CONSTRUCTION, MINING, AND MATERIALS HANDLING MACHINERY AND EQUIPMENT:

3531 Construction Machinery and Equipment (S-91; C-89).—Establishments primarily engaged in manufacturing heavy machinery and equipment used by the construction industries, such as bulldozers; concrete mixers; cranes, except industrial plant; dredging machinery; pavers, and power shovels. Establishments primarily engaged in manufacturing mining equipment are classified in industry 3532, and well drilling machinery in industry 3533.

3532 Mining Machinery and Equipment, Except Oil Field Machinery and Equipment (S-75; C-82).—Establishments primarily engaged in manufacturing heavy machinery and equipment used by the mining industries, such as coal breakers, mine cars, mineral cleaning machinery, concentration machinery, core drills, coal cutters, portable rock drills, and rock crushing machinery. Establishments primarily engaged in manufacturing construction machinery are classified in industry 3531, well drilling machinery in industry 3533, and coal and ore conveyors in industry 3535.

3533 Oil Field Machinery and Equipment (S-90; C-91).—Establishments primarily engaged in manufacturing machinery and equipment for use in oil and gas fields, or for drilling water wells.

3534 Elevators and Moving Stairways (S-97; C-95).—Establishments primarily engaged in manufacturing passenger or freight elevators, automobile lifts, dumb waiters, and moving stairways. Establishments primarily engaged in manufacturing commercial conveyor systems and equipment are classified in industry 3535, and farm elevators in industry 3522.

3535 Conveyors and Conveying Equipment (S-82; C-83).—Establishments primarily engaged in manufacturing conveyors and conveying equipment for installation in factories, warehouses, mines, and other industrial and commercial establishments. Establishments primarily engaged in manufacturing passenger or freight elevators, dumb waiters, and moving stairways are classified in industry 3534; and overhead traveling cranes and monorail systems in industry 3536.

3536 Hoists, Industrial Cranes, and Monorail Systems (S-80; C-70).—Establishments primarily engaged in manufacturing overhead traveling cranes, hoists, and monorail systems for installation in factories, warehouses, and other industrial and commercial establishments.

3537 Industrial Trucks, Tractors, Trailers, and Stackers (S-90; C-81).—Establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, stackers (truck type), and related equipment, used for handling materials on floors and paved surfaces in and around industrial and commercial plants, depots, docks, and terminals. Establishments primarily engaged in manufacturing motor vehicles and motor vehicle type trailers are classified in Industry Group 371; farm type wheel tractors in industry 3522; wheel tractor shovel loaders, tracklaying tractors in industry 3531; and wood pallets and skids in industry 2499.

354 METALWORKING MACHINERY AND EQUIPMENT:

3541 Machine Tools, Metal Cutting Types (S-81; C-88).—Establishments primarily engaged in manufacturing power-driven machines, not supported in the hands of an operator when in use, that shape metal by cutting or use of electrical equipment; the rebuilding of such machine tools, and the manufacture of replacement parts for them. Metalworking, or primarily metalworking, machine tools designed primarily for home workshops are also included. Establishments primarily engaged in the manufacture of electric welding equipment are classified in industry 3623; and portable powerdriven hand tools, gas welding and cutting equipment, and automotive maintenance equipment in industry 3548.

3542 Machine Tools, Metal Forming Types (S-86; C-79).—Establishments primarily engaged in manufacturing power-driven machines, not supported in the hands of an operator while in use, for pressing, forging, hammering, extruding, shearing, bending or die casting metal into shape. This industry also includes rebuilding such machine tools and manufacturing repair parts for them. Establishments primarily engaged in the manufacture of electric welding equipment are classified in industry 3623; portable power-driven hand tools, gas welding and cutting equipment, and automotive maintenance equipment in industry 3548.

3544 Special Dies and Tools, Die Sets, Jigs, and Fixtures (S-93; C-72).—Establishments primarily engaged in manufacturing, on a job or order basis, special tools and fixtures for use with machine tools, hammers, die casting machines, and presses. The products of establishments classified in this industry include a wide variety of special toolings, such as dies; punches; die sets and components, and subpresses; jigs and fixtures; and special checking devices. Establishments primarily engaged in manufacturing metal molds for casting metals, for rubber working, plastic working, glass working and similar machinery are also included.

This industry comprises establishments commonly known as contract tool and die shops; also included are captive tool and die shops of metal-products producers, where such shops were separately operated and separate reports were filed. However, the total value of shipments excludes the captive production of tool and die departments making these products for the exclusive use of the producing establishment.

3545 Machine Tool Accessories and Measuring Devices (S-83; C-84).—Establishments primarily engaged in manufacturing cutting tools, machinists' precision measuring tools, and attachments and accessories for machine tools and for other metalworking machinery, n.e.c. Establishments primarily engaged in manufacturing hand tools, except power-driven, are classified in Industry Group 342.

3548 Metalworking Machinery, Except Machine Tools and Power-Driven Hand Tools (S-85; C-88).—Establishments primarily engaged in manufacturing metalworking machinery such as rolling mill machinery and equipment, power-driven hand tools, welding equipment, wire fabricating machinery and equipment, except wire drawing dies, and automotive maintenance machinery and equipment. Establishments primarily engaged in manufacturing machine tools, metal cutting types, are classified in industry 3541, and those primarily engaged in manufacturing machine tools, metal forming types, in industry 3542.

355 SPECIAL INDUSTRY MACHINERY, EXCEPT METALWORKING MACHINERY:—These industries include establishments primarily engaged in producing industrial machinery, except metalworking machinery, specially designed for use in a specific industry or in a group of industries. Machinery having general industrial application, i.e., used in a number of industries, rather than in specific applications are not included in this group but are included in Industry Group 356. Examples of general industrial machinery are pumps and compressors, fans and blowers, and mechanical power transmission equipment.

3551 Food Products Machinery (S-86; C-87).—Establishments primarily engaged in manufacturing machinery for use by the food products and beverage manufacturing industries in the preparation, canning, or packaging of food products and parts and attachments. Establishments primarily engaged in manufacturing refrigeration machinery are classified in industry 3585; household electrical appliances such as mixers, cookers, etc., are classified in industry 3634.

3552 Textile Machinery (S-93; C-94).—Establishments primarily engaged in manufacturing machinery for the textile industries, and extra parts, attachments, and accessories. Establishments primarily engaged in manufacturing domestic or industrial sewing machines are classified in industry 3636.

3553 Woodworking Machinery (S-80; C-83).—Establishments primarily engaged in manufacturing machinery for sawmills, planing mills, cabinet and furniture makers, pattern makers, and veneer workers.

Establishments primarily engaged in manufacturing hand tools such as planes, axes, drawknives, and hand saws are classified in Industry Group 342, and portable power-driven hand tools in industry 3548.

3554 Paper Industries Machinery (S-88; C-90).—Establishments primarily engaged in manufacturing machinery for the paper-pulp, paper, and paper product industries. Establishments primarily engaged in rebuilding pulp and paper industries machinery are also included in this industry. Establishments primarily engaged in manufacturing printing trades machinery are classified in industry 3555.

3555 Printing Trades Machinery (S-95; C-93).—Establishments primarily engaged in manufacturing machinery and equipment used by the printing and bookbinding trades. Important products of this industry include bookbinding and photoengraving machinery; printers' machinery such as presses, typesetting, typefounding, electrotyping, and stereotyping machines; engravers' equipment (metal plates, wood blocks, and lithographic stones); printers' rollers, rules, sticks, blocks, and type cases; and type, leads, and slugs. Establishments primarily engaged in manufacturing textile printing machinery are classified in industry 3552.

3559 Special Industry Machinery, N.E.C. (S-83; C-73).—Establishments primarily engaged in manufacturing special industry machinery, n.e.c., such as smelting and refining equipment, cement making, clay working, glass making, hat making, incandescent lamp making, leather working, paint making, rubber working, tobacco working, cigar and cigarette making, shoe making, and stone working machinery.

356 GENERAL INDUSTRIAL MACHINERY AND EQUIPMENT:

3561 Pumps, Air and Gas Compressors, and Pumping Equipment (S-85; C-86).—Establishments primarily engaged in manufacturing pumps, compressors, and pumping equipment for general industrial use. Establishments primarily engaged in manufacturing measuring and dispensing pumps for gasoline service station use are classified in industry 3586; and ice making, refrigerating, and air conditioning units in industry 3585.

3562 Ball and Roller Bearings (S-97; C-98).—Establishments primarily engaged in manufacturing ball and roller bearings and parts. Establishments primarily engaged in manufacturing bearings, except ball and roller, are classified in industry 3566.

3564 Blowers, Exhaust and Ventilating Fans (S-83; C-79).—Establishments primarily engaged in manufacturing blowers, and exhaust and ventilating fans for general industrial, commercial, and household use. Establishments primarily engaged in manufacturing complete air conditioning units are classified in industry 3585, and free air circulating fans for use on desks, pedestals, or wall brackets in industry 3634.

3565 Industrial Patterns (S-96; C-80).—Establishments primarily engaged in manufacturing industrial patterns.

3566 Mechanical Power Transmission Equipment, Except Ball and Roller Bearings (S-84; C-79).—Establishments primarily engaged in manufacturing mechanical power transmission equipment for industrial machinery. Establishments primarily engaged in manufacturing automotive, tank, and tractor power transmission equipment are classified in SIC industry 3714 (Census industry 3717); aircraft power transmission equipment in industry 3729; and ball and roller bearings in industry 3562.

3567 Industrial Process Furnaces and Ovens (S-82; C-86).—Establishments primarily engaged in manufacturing industrial process furnaces, ovens, induction and die electric heating equipment, and related devices.

3569 General Industrial Machinery and Equipment, N.E.C. (S-83; C-70).—Establishments primarily engaged in manufacturing machinery, equipment, and components for general industrial use, and for which no special classification is provided. Machine shops primarily engaged in producing machine and equipment parts, usually on a job or order basis, are classified in industry 3599.

Industry 3569 covers a wide range of products such as filters and strainers for internal combustion engines (except automobile engines), hydraulic jacks, packaging and wrapping machines (except food and tobacco), centrifugals and separators (except cream), gas generating equipment, brake burnishing and washing machines, ice crusher machinery, fire hose (except rubber), fire hose dryers and racks, automatic sprinkler systems, general industrial labeling machines, and magnetic separation equipment.

357 OFFICE, COMPUTING, AND ACCOUNTING MACHINES:

3571 Computing and Accounting Machines, Including Cash Registers (S-93; C-94).—Establishments primarily engaged in manufacturing computing machines including electronic, accounting machines, and cash registers. Establishments primarily engaged in manufacturing typewriters are classified in industry 3572, and office duplicating machines and devices and autographic registers in industry 3579.

3572 Typewriters (S-85; C-99).—Establishments primarily engaged in manufacturing typewriters and parts.

3576 Scales and Balances, Except Laboratory (S-92; C-97).—Establishments primarily engaged in manufacturing weighing and force measuring machines and devices of all types, except those regarded as scientific apparatus for laboratory and experimental work which are classified in industry 3811.

3579 Office Machines, N.E.C. (S-81; C-79).—Establishments primarily engaged in manufacturing office machines and devices, n.e.c. Establishments primarily engaged in manufacturing computing machines and cash registers are classified in indus ry 3571, typewriters in industry 3572, and photocopy and microfilm equipment in industry 3861.

358 SERVICE INDUSTRY MACHINES:

3581 Automatic Merchandising Machines (S-81; C-90).—Establishments primarily engaged in manufacturing automatic merchandising units, also referred to as vending machines (excluding music, amusement, or gaming machines) and coin-operated mechanisms for such machines. Coin-operated amusement and gaming machines are classified in industry 3999 and coin-operated phonographs in industry 3651.

3582 Commercial Laundry, Dry Cleaning, and Pressing Machines (S-91; C-89).—Establishments primarily engaged in manufacturing laundry and dry-cleaning equipment and pressing machines for commercial and industrial use. Establishments primarily engaged in manufacturing household laundry equipment are classified in industry 3633. Although the SIC classifies coin-operated household washing machines in industry 3582 data for these machines are included in the 1963 Census of Manufactures, as in 1958, in industry 3633.

3585 Refrigerators and Refrigeration Machinery, Except Household; and Complete Air-Conditioning Units (S^{14}; C^{14}).—Establishments primarily engaged in manufacturing equipment and systems utilizing the basic refrigeration cycle, including mechanical and absorption refrigerators for commercial and industrial use; refrigeration machinery, and complete air-conditioning units for domestic, commercial, and industrial use. Establishments primarily engaged in manufacturing soda fountain and beer-dispensing equipment are classified in this industry, and those primarily engaged in manufacturing household refrigerators and home and farm freezers in industry 3632.

3586 Measuring and Dispensing Pumps (S-73; C-85).—Establishments primarily engaged in manufacturing, measuring and dispensing pumps commonly used in service and filling stations for dispensing gasoline, oil, and grease, including grease guns. Establishments primarily engaged in manufacturing pumps, compressors and pumping equipment for general use are classified in industry 3561.

3589 Service Industry Machines, N.E.C. (S-86; C-84).—Establishments primarily engaged in manufacturing machines and equipment, not elsehwere classified, for use in service industries, such as floor sanding machines, industrial vacuum cleaners, scrubbing machines, commercial cooking and food warming equipment, and commercial dishwashing machines. Establishments primarily engaged in manufacturing household electric appliances are classified in Industry Group 363.

359 MISCELLANEOUS MACHINERY, EXCEPT ELECTRICAL:

3599 Miscellaneous Machinery, Except Electrical (S-90; C-90).—Establishments primarily engaged in manufacturing machinery and parts except electrical, not elsewhere classified, such as pistons and piston rings, carburetors, metallic packing, and amusement park equipment. This industry also includes establishments primarily engaged in producing or repairing machine and equipment parts, n.e.c, on a job or order basis for others. These establishments usually operate on a job, or order basis and are equipped with machine tools and other power-driven metalworking machinery capable of manufacturing a wide range of machine and equipment parts. Machine shops classified in this industry are characterized by their method of operation rather than their product, and the fact that they may be primarily engaged in repair work does not exclude them from this classification; however, machine shops engaged exclusively in repair work are classified in repair industries.

Although generally characterized by method of operation rather than type of product, establishments primarily engaged in manufacturing the following products are classified in industry 3599: metal bellows, bushings machined from purchased castings, carburetors, catapults, boiler-tube cleaners, valve cores, hydraulic cylinders, iron flasks, flexible metal hose and tubing, metallic packing (except asbestos-metallic), pistons and piston rings, and intake and exhaust valves for internal combustion engines.

36 ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES

This major group includes establishments engaged in manufacturing machinery, apparatus, and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy. The manufacture of household appliances is included in this group, but industrial machinery and equipment powered by built-in or detachable electric motors is classified in Major Group 35.

361 ELECTRIC TRANSMISSION AND DISTRIBUTION EQUIPMENT:

3611 Electrical Measuring Instruments and Test Equipment (S-84; C-78).—Establishments primarily engaged in manufacturing pocket, portable, panelboard and graphic recording instruments for measuring electricity, such as voltmeters, ammeters, wattmeters, watt-hour meters, demand meters and other meters and indicating instruments. This industry also includes establishments primarily engaged in manufacturing analyzers for testing the electrical characteristics of internal combustion engines, radio apparatus, etc.

3612 Power, Distribution, and Specialty Transformers (S-92; C-94).—Establishments primarily engaged in manufacturing power, distribution and specialty transformers. Establishments primarily engaged in manufacturing radio frequency or voice frequency transformers, coils or chokes are classified in industry 3679, and resistor welding transformers in industry 3623.

3613 Switchgear and Switchboard Apparatus (S-87; C-89).—Establishments primarily engaged in manufacturing switchgear and switchboard apparatus. Important products of this industry include power switches, circuit breakers, power switching equipment, and similar switchgear for general industrial application; switchboards and cubicles, control and metering panels, power fuse mountings, and similar switchboard apparatus and supplies. Establishments primarily engaged in manufacturing industrial controls are classified in industry 3622, and those manufacturing current carrying wiring devices in industry 3643.

362 ELECTRICAL INDUSTRIAL APPARATUS:

3621 Motors and Generators (S-81; C-84).—Establishments primarily engaged in manufacturing electric motors (except starting motors) and power generators; motor generator sets; railway motors and control equipment; and motors, generators and control equipment for gasoline electric and oil electric busses and trucks. Establishments primarily engaged in manufacturing turbogenerators are classified in industry 3511 and starting motors and battery charging generators for internal combustion engines in industry 3694.

3622 Industrial Controls (S-79; C-79).—Establishments primarily engaged in manufacturing motor starters and controllers, control accessories, electronic controls, and other industrial controls. Establishments primarily engaged in manufacturing automatic temperature controls are classified in industry 3822.

3623 Welding Apparatus (S-93; C-89).—Establishments primarily engaged in the manufacture of welding apparatus and accessories. Important products of this industry include arc welding machines, spot, projection, seam, flash and other resistance welders, welding electrodes, electrode holders and other welding machine accessories. Establishments primarily engaged in coating welding wire from purchased wire or wire drawn in the same establishment are also included. Establishments primarily engaged in manufacturing gas welding apparatus are classified in industry 3548.

3624 Carbon and Graphite Products (S-93; C-96).—Establishments primarily engaged in the manufacture of carbon and graphite products for use in the electrical industries. This industry comprises establishments primarily engaged in manufacturing lighting carbons; carbon, graphite, and metal-graphite brushes and brush stock; carbon or graphite electrodes for thermal and electrolytic uses; and other carbon, graphite, and metal-graphite products for use in the electrical industries.

3629 Electrical Industrial Apparatus, N.E.C. (S-80; C-72).—Establishments primarily engaged in manufacturing industrial and commercial electric apparatus and equipment, n.e.c., such as blasting machines, and fixed and variable capacitors, condensers and rectifiers for industrial application.

Establishments primarily engaged in manufacturing fixed and variable capacitors and condensers for electronic end products are classified in industry 3679, and rectifiers for electronic end products in industry 3674.

363 HOUSEHOLD APPLIANCES:

3631 Household Cooking Equipment (S-87; C-72).—Establishments primarily engaged in manufacturing household cooking equipment, such as stoves, ranges, and ovens. Establishments primarily engaged in manufacturing household cooking appliances, such as hot plates, grills, percolators, and toasters are classified in industry 3634. Establishments primarily engaged in manufacturing commercial cooking equipment are classified in industry 3589.

3632 Household Refrigerators and Home and Farm Freezers (S-66; C-99).—Establishments primarily engaged in manufacturing household refrigerators and home and farm freezers. Establishments primarily engaged in manufacturing commercial and industrial refrigeration equipment, packaged room coolers, and dehumidifiers are classified in industry 3585.

3633 Household Laundry Equipment (S-89; C-87).—Establishments primarily engaged in manufacturing laundry equipment such as washing machines, wringers, dryers, and ironers for household use. Establishments primarily engaged in manufacturing commercial laundry equipment are classified in industry 3582.

3634 Electric Housewares and Fans (S-87; C-81).—Establishments primarily engaged in manufacturing electric housewares for heating, cooking, and other purposes; and electric fans. Important products of this industry include electric air heaters, bed coverings, blenders, broilers, deep fat fryers, flat irons, food mixers, hot plates, percolators and coffee makers, roasters, toasters, desk and bracket fans, and hassock or floor fans.

3635 Vacuum Cleaners, Household (S-87; C-80).—Establishments primarily engaged in manufacturing vacuum cleaners for household use. Establishments primarily engaged in manufacturing vacuum cleaners for industrial use are classified in industry 3589.

3636 Sewing Machines (S-90-95; C-96).—Establishments primarily engaged in manufacturing sewing machines for domestic and industrial use.

3639 Household Appliances, N.E.C. (S-79; C-79).—Establishments primarily engaged in manufacturing household appliances, n.e.c., such as hot water heaters, dishwashers, and food waste disposal units.

364 ELECTRIC LIGHTING AND WIRING EQUIPMENT:

3641 Electric Lamps (S-95; C-96).—Establishments primarily engaged in manufacturing electric bulbs, tubes and related light sources. Important products of this industry include incandescent filament lamps, vapor and fluorescent lamps, photoflash and photoflood lamps, electrotherapeutic lamps, units for ultra violet and infrared radiation and other electric light sources. Establishments primarily engaged in manufacturing glass blanks for bulbs are classified in industry 3229; and lamp components, such as filaments, supports, lead-in wires and cold cathode fluorescent lamp electrodes in industry 3699.

3642 Lighting Fixtures (S-93; C-93).—Establishments primarily engaged in manufacturing lighting fixtures and equipment of any type, including electric and gas lighting fixtures; carbide, kerosene and gasoline lamps; and metal reflectors and fittings. Establishments primarily engaged in producing glassware for lighting fixtures are classified in Major Group 32; electric light bulbs, tubes and related light sources in industry 3641.

3643 Current Carrying Wiring Devices (S-80; C-83).—Establishments primarily engaged in manufacturing current carrying wiring devices. Important products of this industry include attachment plugs and caps, convenience outlets, lamp sockets and receptacles, snap switches, conductor connectors, overhead trolley line material, rail bonds for both propulsion and signal circuits, lightning arrestors, and other lightning protective equipment.

3644 Noncurrent Carrying Wiring Devices (S-77; C-80).—Establishments primarily engaged in manufacturing noncurrent carrying wiring devices. Important products of this industry include conduits and fittings, electrical insulators and insulation materials, except porcelain insulators (industry 3264) and glass insulators (industry 3229); outlet, switch and fuse boxes; and pole-line hardware.

365 RADIO AND TELEVISION RECEIVING SETS, EXCEPT COMMUNICATION TYPES:

3651 Radio and Television Receiving Sets, Except Communication Types (S-91; C-96).—Establishments primarily engaged in manufacturing equipment for home entertainment. This industry also includes establishments primarily engaged in manufacturing public address systems, and music distribution apparatus, except records. Establishments primarily engaged in manufacturing records are classified in industry 3652; radio and television receiving type tubes in industry 3671; and television receiving type cathode ray tubes in industry 3672.

3652 Phonograph Records (S-99; C-97).—Establishments primarily engaged in manufacturing phonograph records and prerecorded magnetic tapes. Establishments primarily engaged in manufacturing electronic equipment for home entertainment, except records, are classified in industry 3651.

366 COMMUNICATION EQUIPMENT:

3661 Telephone and Telegraph Apparatus (S-95; C-95)[1].—Establishments primarily engaged in manufacturing wire telephone and telegraph equipment and parts especially designed for telephone and telegraph use.

3662 Radio and Television Transmitting, Signaling, and Detection Equipment and Apparatus (S-88; C-91).—Establishments primarily engaged in manufacturing (1) radio and television broadcasting equipment; (2) electric communication equipment and parts, except telephone and telegraph; (3) electronic field detection apparatus, light and heat emission operation apparatus, object detection apparatus and navigational electronic equipment, and aircraft and missile control systems; and (4) other electric and electronic communication and signaling products, n.e.c. Establishments primarily engaged in manufacturing transmitting tubes are classified in industry 3673.

367 ELECTRONIC COMPONENTS AND ACCESSORIES:

3671 Radio and Television Receiving Type Electron Tubes, Except Cathode Ray (S-89; C-95).—Establishments primarily engaged in manufacturing radio and television receiving type electron tubes, except cathode ray tubes. Establishments primarily engaged in manufacturing television receiving type cathode ray tubes are classified in industry 3672; transmitting tubes in industry 3673; X-ray tubes in industry 3693; and electronic equipment for home entertainment, except tubes, in industry 3651.

3672 Cathode Ray Picture Tubes (S-85-90; C-90).—Establishments primarily engaged in manufacturing television receiving type cathode ray tubes. Establishments primarily engaged in manufacturing other radio and television receiving type electron tubes are classified in industry 3671; and transmitting tubes in industry 3673.

3673 Transmitting, Industrial, and Special Purpose Electron Tubes (S-80; C-75).—Establishments primarily engaged in manufacturing transmitting, industrial, and special purpose electron tubes. Establishments primarily engaged in manufacturing radio and television transmitting equipment are classified in industry 3662; radio and television receiving tubes in industry 3671; television receiving type cathode ray tubes in industry 3672; and X-ray tubes in industry 3693.

3674 Semiconductor (Solid State) and Related Devices (S-88; C-92).—Establishments primarily engaged in manufacturing semiconductor (solid state) and related devices, such as semiconductor diodes and stacks, including rectifiers; transistors; solar cells; and light sensitive semiconductor (solid state) devices.

This industry was not included in the Standard Industrial Classification in 1958. In the latter year it was part of industry 3679.

3679 Electronic Components and Accessories, N.E.C. (S-89; C-78).—Establishments primarily engaged in manufacturing specialty resistors for electronic end products; inductors; electronic transformers and capacitors; and other electronic components, n.e.c. Establishments primarily engaged in manufacturing resistors, inductors, and transformers for telephone and telegraph apparatus are classified in industry 3661; electric lamps in industry 3641; and semiconductor (solid state) and related devices in industry 3674.

This industry in 1963 differs from the classification in 1958. Industry 3674, a separate industry in 1963, was formerly part of 3679.

369 MISCELLANEOUS ELECTRICAL MACHINERY EQUIPMENT AND SUPPLIES:

3691 Storage Batteries (S-98; C-99).—Establishments primarily engaged in the manufacture of storage batteries for automobiles, trucks, farm tractors and busses as well as storage batteries for farm uses, communications systems and railroad equipment. Parts for storage batteries are also included in this industry.

3692 Primary Batteries, Dry and Wet (S-96; C-91).—Establishments primarily engaged in the manufacture of dry and wet cell primary batteries for flashlights, railroad lanterns, hearing aids, portable radios, farm radios, and general purposes as well as parts and supplies for primary batteries.

3693 Radiographic X-ray, Fluoroscopic X-ray and Other X-ray Apparatus and Tubes (S-83; C-80).—Establishments primarily engaged in manufacturing radiographic X-ray, fluoroscopic X-ray, and therapeutic X-ray apparatus and tubes for medical, industrial, research and control applications. Establishments primarily engaged in manufacturing radio receiving type tubes are classified in industry 3671; television receiving cathode ray tubes in industry 3672; transmitting tubes in industry 3673; and electrotherapeutic lamp units for ultra-violet and infra-red radiation in industry 3641.

3694 Electrical Equipment for Internal Combustion Engines (S-93; C-81).—Establishments primarily engaged in manufacturing electrical equipment for internal combustion engines. Important products of this industry include starting motors and generators for automobiles and aircraft; and ignition apparatus for internal combustion engines, including spark plugs, magnetos, coils, and distributors.

3699 Electrical Machinery, Equipment, and Supplies, N.E.C. (S-90; C-49[26]).—Establishments primarily engaged in manufacturing electrical machinery, equipment and supplies, n.e.c.

37 TRANSPORTATION EQUIPMENT

This major group includes establishments engaged in manufacturing equipment for transportation of passengers and cargo by land, air, and water. Important products produced by establishments classified in this major group include motor vehicles, aircraft, ships, boats, railroad equipment, and miscellaneous transportation equipment such as motorcycles, bicycles, and horse drawn vehicles.

371 MOTOR VEHICLES AND MOTOR VEHICLE EQUIPMENT:

3713 Truck and Bus Bodies (S-88; C-86).—Establishments primarily engaged in the manufacture of truck and bus bodies, for sale separately or for assembly on purchased chassis. Establishments primarily engaged in manufacturing complete trucks and busses are classified in industry 3717, and stamped body parts for trucks and busses in industry 3461.

3715 Truck Trailers (S-92; C-93).—Establishments primarily engaged in the manufacture of truck trailers and truck trailer chassis for sale separately, but not engaged in manufacturing complete trucks and busses. Establishments primarily engaged in manufacturing trailer bodies are classified in industry 3713. Those primarily engaged in manufacturing passenger car trailers are classified in industry 3799; and those primarily engaged in manufacturing trailer coaches are classified in industry 3791.

3717 Motor Vehicles and Parts (S-97; C-98)[1].—Establishments primarily engaged in manufacturing or assembly of complete passenger automobiles, car bodies, trucks, commercial cars and busses (except trackless trolleys, industry 3742), special purpose motor vehicles such as ambulances, fire engines, taxicabs, scout cars, personnel carriers, amphibian motor vehicles, and selected parts and accessories for motor vehicles. Establishments primarily engaged in manufacturing motor vehicles on purchased chassis (ambulances, fire engines, etc.) are classified in industry 3713.

In the 1963 Census of Manufactures, as in 1958, the three SIC industries (3711, 3712, and 3714) have been combined because of a major problem of defining the reporting unit in terms of these industries. This difficulty arises from the fact that many large establishments have integrated operations which include the production of parts or bodies and the assembly of complete vehicles at the same location.

Included in industry 3717 are such parts as passenger-car bodies, motor vehicle engines (except diesel), brakes, clutches, axles, radiators, differentials, transmissions, wheels and frames, windshield wipers, automotive bumpers, camshafts, connecting rods, crankshaft assemblies, cylinder heads, drive shafts, exhaust systems, fuel systems, heaters, hoods, horns, instrument board assemblies, lubrication systems, mufflers, power-transmission equipment, rear-axle housings, shock absorbers, steering mechanisms, universal joints, wheel rims, windshield frames, and automobile accessories, n.e.c.

A considerable number of components, parts, and accessories for motor vehicles are not classified in industry 3717 but are classified in other Standard Industrial Classification industries based on the characteristic of the product itself rather than the use to which it is put. Among the more important of these are automotive hardware, industry 3429; automotive stampings, industry 3461; diesel and semidiesel engines, industry 3519; sealed beam and other electric lamps, industry 3641; motor vehicle lighting fixtures, industry 3642; tire and inner tubes, industry 3011; automobile glass, industry 3211; ignition equipment such as spark plugs, distributors, switches, ignition coils, generators, cranking motors, etc., industry 3694; storage batteries, industry 3691; automobile radios, industry 3651; and carburetors and pistons, industry 3599.

372 AIRCRAFT AND PARTS:

3721 Aircraft (S-69; C-96).—Establishments primarily engaged in manufacturing or assembling complete aircraft. This industry includes establishments primarily engaged in factory type aircraft modification on a contract or fee basis. Establishments primarily engaged in manufacturing engines, propellers, and other aircraft parts and auxiliary equipment are classified in industries 3722, 3723, and 3729.

3722 Aircraft Engines, and Engine Parts (S-87; C-93).—Establishments primarily engaged in manufacturing aircraft engines, complete missile or space vehicle engines and/or propulsion units and their parts.

3723 Aircraft Propellers and Propeller Parts (S-48; C-81).—Establishments primarily engaged in manufacturing aircraft propellers and propeller parts.

3729 Aircraft Parts and Auxiliary Equipment, N.E.C. (S-75; C-59).—Establishments primarily engaged in manufacturing aircraft parts and auxiliary equipment, n.e.c. Establishments primarily engaged in manufacturing or assembling complete aircraft are classified in industry 3721, aircraft engines and parts in industry 3722, propellers and propeller parts in industry 3723, aeronautical instruments in industry 3811, and aeronautical electrical equipment in industry 3694.

373 SHIP AND BOAT BUILDING AND REPAIRING:

3731 Ship Building and Repairing (S-92; C-99).—Establishments primarily engaged in building and repairing all types of ships, barges, canal boats and lighters, whether propelled by sail or motor power or towed by other craft. This industry also included the conversion and reconversion of ships. Establishments primarily engaged in fabricating structural assemblies or components for ships or subcontractors engaged in ship painting, joinery, carpentry work, electrical wiring installations, etc., are not classified in this industry.

3732 Boat Building and Repairing (S-97; C-95).—Establishments primarily engaged in building and repairing of boats, except rubber boats (industry 3069). Establishments primarily engaged in cleaning and storing boats and the rental of dock space, and yacht clubs are classified in nonmanufacturing industries.

374 RAILROAD EQUIPMENT:

3741 Locomotives and Parts (S-83; C-90).—Establishments primarily engaged in building and rebuilding locomotives (including frames and parts, n.e.c.) of any type or gauge. Railroad shops rebuilding and repairing locomotives, or building new locomotives, are classified in Major Group 40.

3742 Railroad and Street Cars (S-91; C-93).—Establishments primarily engaged in building and rebuilding railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service. This industry also includes establishments primarily engaged in manufacturing trackless trolley busses. Establishments primarily engaged in manufacturing mining cars are classified in industry 3532. Repair shops owned and operated by railroad or local transit companies, rebuilding or repairing cars, or building new cars for their own account, are classified in Major Groups 40 and 41.

375 MOTORCYCLES, BICYCLES, AND PARTS:

3751 Motorcycles, Bicycles, and Parts (S-83; C-93).—Establishments primarily engaged in manufacturing motorcycles, bicycles, and similar equipment and parts. Establishments primarily engaged in assembling motorcycles or bicycles from purchased parts are also included in this industry. Establishments primarily engaged in manufacturing children's vehicles, except bicycles, are classified in industry 3943.

379 MISCELLANEOUS TRANSPORTATION EQUIPMENT:

3791 Trailer Coaches, Housing Type (S-98; C-99).—Establishments primarily engaged in manufacturing trailer coaches (mobile dwellings) for attachment to passenger cars and pickup coaches (campers) for mounting on pick-up trucks.

3799 Transportation Equipment, N.E.C. (S-89; C-75).—Establishlishments primarily engaged in manufacturing transportation equipment, n.e.c. Establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, and stackers are classified in industry 3537, and children's vehicles, except bicycles, in industry 3943.

38 PROFESSIONAL, SCIENTIFIC, AND CONTROLLING INSTRUMENTS; PHOTOGRAPHIC AND OPTICAL GOODS; WATCHES AND CLOCKS

This major group includes establishments engaged in manufacturing mechanical measuring, engineering, laboratory, and scientific research instruments; optical instruments and lenses; surgical, medical, and dental instruments, equipment, and supplies; ophthalmic goods; photographic equipment and supplies; and watches and clocks. Establishments primarily engaged in manufacturing instruments for indicating, measuring, and recording electrical quantities and characteristics are classified in industry 3611.

381 ENGINEERING, LABORATORY, AND SCIENTIFIC AND RESEARCH INSTRUMENTS AND ASSOCIATED EQUIPMENT:

3811 Engineering, Laboratory, and Scientific and Research Instruments and Associated Equipment. (S-84; C-56).—Establishments primarily engaged in manufacturing laboratory, scientific, and engineering instruments such as nautical, navigational, aeronautical, surveying, drafting, and instruments for laboratory work and scientific research (except optical instruments, industry 3831). Establishments primarily engaged in manufacturing surgical and medical instruments are classified in industry 3841; dental instruments and equipment in industry 3843; mechanical measuring and controlling instruments in industry 3821; machinists' precision measuring tools in industry 3545; instruments for indicating, measuring, and recording electrical quantities and characteristics in industry 3611; watches and clocks in industry 3871; measuring and dispensing pumps in industry 3586.

382 INSTRUMENTS FOR MEASURING, CONTROLLING, AND INDICATING PHYSICAL CHARACTERISTICS:

3821 Mechanical Measuring and Controlling Instruments, Except Automatic Temperature Controls (S-90; C-83).—Establishments primarily engaged in manufacturing industrial process instruments for indicating, recording, measuring and controlling temperature (except automatic temperature controls, industry 3822), pressure and vacuum, fluid flow and liquid level, mechanical motion, rotation, humidity, density, acidity, alkalinity and combustion; dial pressure gauges; physical property testing apparatus such as hardness, tension, compression, torsion, ductility, elasticity testing apparatus.

3822 Automatic Temperature Controls (S-82; C-95).—Establishments primarily engaged in manufacturing automatic temperature controls activated by pressure, temperature, level, flow, time, or humidity (including pneumatic controls) of the type principally used as components of household apparatus. Establishments primarily engaged in manufacturing industrial electric controls are classified in industry 3622.

383 OPTICAL INSTRUMENTS AND LENSES:

3831 Optical Instruments and Lenses (S-90; C-61).—Establishments primarily engaged in the production of optical lenses and prisms, and in manufacturing optical instruments such as microscopes, telescopes, field and opera glasses; and optical measuring and testing instuments such as refractometers, spectrometers, spectroscopes, colorimeters, polariscopes. Establishments primarily engaged in manufacturing eyeglass lenses, frames, or fittings are classified in industry 3851; and those engaged in manufacturing sighting and fire control instruments, but not engaged in manufacturing optical components, in industry 1941.

384 SURGICAL, MEDICAL, AND DENTAL INSTRUMENTS AND SUPPLIES:

3841 Surgical and Medical Instruments and Apparatus (S-88; C-74).—Establishments primarily engaged in manufacturing medical, surgical, ophthalmic, and veterinary instruments and apparatus. Establishments primarily engaged in manufacturing surgical and orthopedic appliances are classified in industry 3842; and electrotherapeutic, electromedical, and X-ray apparatus in industry 3693.

3842 Orthopedic, Prosthetic and Surgical Appliances and Supplies (S-80; C-90).—Establishments primarily engaged in manufacturing orthopedic, prosthetic, and surgical appliances and supplies, arch supports, and other foot appliances; fracture appliances, elastic hosiery, abdominal supporters, braces, and trusses; bandages; surgical gauze and dressings; sutures; adhesive tapes and medicated plasters; and personal safety appliances and equipment. Establishments primarily engaged in manufacturing surgical and medical instruments are classified in industry 3841. Establishments primarily engaged in manufacturing appliances and in the personal fitting to the individual prescription of a physician are classified in trade industries.

3843 Dental Equipment and Supplies (S-94; C-92).—Establishments primarily engaged in manufacturing artificial teeth, dental metals, alloys and amalgams, and a wide variety of equipment, instruments, and supplies used by dentists, dental laboratories, and dental colleges. Dental laboratories constructing artificial dentures, bridges, inlays and other dental restorations on specifications from dentists are classified in service industries.

385 OPHTHALMIC GOODS:

3851 Ophthalmic Goods (S-86; C-92).—Establishments primarily engaged in manufacturing ophthalmic frames, lenses, and sunglass lenses. Establishments primarily engaged in manufacturing slit lamps are classified in industry 3841, and

molded glass blanks in industry 3229. Establishments primarily engaged in grinding lenses and fitting glasses to prescription are classified in trade industries.

386 PHOTOGRAPHIC EQUIPMENT AND SUPPLIES:

3861 Photographic Equipment and Supplies (S-95; C-97).—Establishments primarily engaged in manufacturing (1) photographic apparatus, equipment, parts, attachments, and accessories, such as still and motion picture cameras and projection apparatus; photocopy and microfilm equipment; blueprinting and diazotype (white printing) apparatus and equipment; and other photographic equipment; and (2) sensitized film, paper, cloth, and plates, and prepared photographic chemicals for use therewith. Establishments primarily engaged in manufacturing photographic paper stock (unsensitized); and paper mats, mounts, easels and folders for photographic use are classified in Major Group 26; photographic lenses in industry 3831; photographic glass in Major Group 32; chemicals for technical purposes, not specifically prepared and packaged for use in photography, in Major Group 28; and photographic flash, flood, enlarger and projection lamps in industry 3641.

387 WATCHES, CLOCKS, CLOCKWORK OPERATED DEVICES, AND PARTS:

3871 Watches, Clocks, and Parts Except Watchcases (S-82; C-95).—Establishments primarily engaged in manufacturing clocks (including electric), watches, mechanisms for clockwork operated devices, and clock and watch parts. This industry includes establishments primarily engaged in assembling clocks and watches from purchased movements and cases. Establishments primarily engaged in manufacturing watchcases are classified in industry 3872, glass crystals in industry 3231, and unbreakable crystals in industry 3079.

3872 Watchcases (S-86; C-97).—Establishments primarily engaged in the manufacture of watchcases, for sale as such. Establishments primarily engaged in assembling complete watches by assembling purchased movements with watchcases of their own manufacture are classified in industry 3871.

39 MISCELLANEOUS MANUFACTURING INDUSTRIES

This major group includes establishments primarily engaged in manufacturing products not classified in any other manufacturing major group. Industries in this group fall into the following categories: jewelry, silverware and plated ware; musical instruments; toys, sporting and athletic goods; pens, pencils, and other office and artists' materials; buttons, costume novelties, miscellaneous notions; brooms and brushes; morticians' goods, and other miscellaneous manufacturing industries.

391 JEWELRY, SILVERWARE, AND PLATED WARE:

3911 Jewelry (Precious Metal) (S-92; C-97).—Establishments primarily engaged in manufacturing jewelry and other articles, worn on or carried about the person, made of precious metals with or without stones (including the setting of stones where stones are used), including cigarette cases and lighters, vanity cases and compacts; trimmings for umbrellas and canes; and jewel settings and mountings. Establishments primarily engaged in manufacturing costume jewelry from nonprecious metals and other materials are classified in industry 3961.

3912 Jewelers' Findings and Materials (S-92; C-89).—Establishments primarily engaged in manufacturing unassembled jewelry parts, and stock shop products such as sheet, wire and tubing. Establishments primarily engaged in lapidary work are classified in industry 3913.

3913 Lapidary Work (S-93; C-81).—Establishments of lapidaries primarily engaged in cutting, slabbing, tumbling, carving, engraving, polishing, or faceting stones from natural or man-made precious or semi-precious gem raw materials, either for sale or on a contract basis for the trade; in recutting, repolishing, and setting gem stones; or in cutting, drilling, and otherwise preparing jewels for instruments, dies, watches, chronometers, and other industrial uses. This industry includes the drilling, sawing, and peeling of real or cultured pearls, but does not include the manufacture of artificial pearls (industry 3961).

3914 Silverware and Plated Ware (S-95; C-98).—Establishments primarily engaged in manufacturing flatware (including knives, forks, and spoons), hollow ware, toilet ware, ecclesiastical ware, and related products made of sterling silver; of metal plated with silver, gold, or other metal; of nickel silver; of pewter; or of stainless steel.

"Flatware" is defined for purposes of the census as all knives, forks, spoons, etc., made wholly of metal, including stainless steel knives, forks, and spoons, and carving sets with metal handles. Knives, forks, spoons, etc., with handles of materials other than metal are included in industry 3421.

393 MUSICAL INSTRUMENTS AND PARTS:

3931 Musical Instruments and Parts (S-97; C-92).—Establishments primarily engaged in manufacturing pianos, with or without player attachments; organs; other musical instruments; and parts and materials for musical instruments.

394 TOYS, AMUSEMENT, SPORTING AND ATHLETIC GOODS:

3941 Games and Toys, Except Dolls and Children's Vehicles (S-92; C-91).—Establishments primarily engaged in manufacturing indoor games and game sets for adults and children, and mechanical and nonmechanical toys. Important products of this industry include games such as chess, checkers, dominoes, puzzles, and other indoor games; and toys, such as toy furniture, doll carriages and carts, construction sets, mechanical trains, toy guns and air rifles, and other mechanical games and toys. Establishments primarily engaged in manufacturing dolls are classified in industry 3942; children's outdoor wheel goods and vehicles, except bicycles, in industry 3943; and sporting and athletic goods for children and adults in industry 3949.

3942 Dolls (S-80-85; C-87).—Establishments primarily engaged in manufacturing dolls, doll parts, and doll clothing. Establishments primarily engaged in manufacturing stuffed toy animals are also included in this industry.

3943 Children's Vehicles, Except Bicycles (S-71; C-65).—Establishments primarily engaged in manufacturing baby carriages, strollers, and gocarts; children's velocipedes and tricycles, coaster wagons, play cars, sleds, and other children's outdoor wheel goods and vehicles, except bicycles (industry 3751).

3949 Sporting and Athletic Goods, N.E.C. (S-93; C-91).—Establishments primarily engaged in manufacturing sporting and athletic goods, n.e.c., such as fishing tackle; golf and tennis goods; baseball, football, basketball, and boxing equipment; roller skates and ice skates; gymnasium and playground equipment; billiard and pool tables; and bowling alleys and equipment. Establishments primarily engaged in manufacturing athletic apparel are classified in Major Group 23, small arms ammunition in industry 1961 and firearms in industry 1951.

395 PENS, PENCILS, AND OTHER OFFICE AND ARTISTS' MATERIALS:

3951 Pens, Pen Points, Fountain Pens, Ball Point Pens, Mechanical Pencils and Parts (S-90; C-93).—Establishments primarily engaged in manufacturing pens, pen points, fountain pens, ball point pens, refill cartridges, and parts for pens and mechanical pencils.

3952 Lead Pencils, Crayons, and Artists' Materials (S-87; C-90).—Establishments primarily engaged in manufacturing lead pencils, pencil leads, and crayons; materials and equipment for art work such as airbrushes, drawing tables and boards, palettes, sketch boxes, pantographs, artists' colors and waxes, pyrography goods, drawing inks, and drafting materials. Establishments primarily engaged in manufacturing mechanical pencils are classified in industry 3951, and drafting instruments in industry 3811.

3953 Marking Devices (S-84; C-90).—Establishments primarily engaged in manufacturing rubber and metal hand stamps, dies, and seals; steel letters and figures; and stencils for use in painting or marking.

3955 Carbon Paper and Inked Ribbons (S-95; C-83).—Establishments primarily engaged in manufacturing carbon paper for business machines, sales books, etc.; spirit or gelatin process and other stencil paper; and inked ribbons for business machines.

396 COSTUME JEWELRY, COSTUME NOVELTIES, BUTTONS, AND MISCELLANEOUS NOTIONS, EXCEPT PRECIOUS METAL:

3961 Costume Jewelry and Costume Novelties, Except Precious Metal (S-95; C-95).—Establishments primarily engaged in manufacturing costume jewelry, costume novelties, and ornaments made of all materials, except precious metal, precious or semiprecious stones, and rolled gold plate and gold filled materials (industry 3911).

3962 Feathers, Plumes, and Artificial Flowers (S-97; C-87).—Establishments primarily engaged in manufacturing artificial flowers, fruits, and foliage made from all materials except glass (industry 3231); in producing fancy feathers, plumes, and articles made principally of feathers and plumes; and curling, dyeing, and renovating ostrich feathers for the trade.

3963 Buttons (S-96; C-87).—Establishments primarily engaged in manufacturing buttons, button parts, and button blanks and molds, of all materials except precious metal and precious or semiprecious stones (industry 3911).

3964 Needles, Pins, Hooks and Eyes, and Similar Notions (S-91; C-92).—Establishments primarily engaged in manufacturing notions, such as machine and hand needles, pins, hooks and eyes, eyelets, buckles, and slide and snap fasteners.

398 } MISCELLANEOUS MANUFACTURING INDUSTRIES:
399 }

3981 Brooms and Brushes (S-89; C-93).—Establishments primarily engaged in manufacturing household, industrial, and street sweeping brooms; and brushes such as paint brushes, toothbrushes, toilet brushes, and household and industrial brushes.

3982 Linoleum, Asphalted-Felt-Base, and Other Hard Surface Floor Coverings, N.E.C. (S-82; C-98).—Establishments primarily engaged in manufacturing linoleum, asphalted-felt-base, and other hard surface floor coverings, n.e.c. Establishments primarily engaged in manufacturing rubber floor coverings are classified in industry 3069, and cork floor and wall tile in industry 2499. Also excluded are establishments primarily engaged in manufacturing unsupported plastic floor coverings (industry 3079), and asphalt tile and vinyl asbestos floor tile (industry 3292).

3983 Matches (S-95-100; C-95-100).—Establishments primarily engaged in manufacturing matches, regardless of the material used.

3984 Candles (S-95; C-94).—Establishments primarily engaged in manufacturing candles from fatty acids, or from mineral and animal waxes.

3987 Lamp Shades (S-96; C-98).—Establishments primarily engaged in manufacturing lamp shades of all materials except glass (industry 3229), and metal (industry 3642).

3988 Morticians' Goods (S-95; C-98).—Establishments primarily engaged in manufacturing caskets, coffins, burial cases, and coffin shipping cases, whether of wood or other material, except concrete (industry 3272); morticians' supplies and accessories, such as burial garments, gloves, slippers, casket linings, and embalming fluids; and morticians' paraphernalia and equipment.

3992 Furs, Dressed and Dyed (S-98; C-94).—Establishments primarily engaged in scraping, currying, tanning, bleaching, and dyeing pelts.

3993 Signs and Advertising Displays (S-96; C-95).—Establishments primarily engaged in manufacturing electrical, mechanical, cutout, or plate signs and advertising displays, including neon signs and advertising novelties. Sign painting shops doing business on a custom basis are classified in service industries. Establishments primarily engaged in manufacturing electric signal equipment are classified in industry 3662, and lighting fixtures in industry 3642.

3995 Umbrellas, Parasols, and Canes (S-95; C-98).—Establishments primarily engaged in manufacturing umbrellas, parasols, canes; and trimmings, frames, handles, and other parts.

3999 Manufacturing Industries, N.E.C. (S-94; C-84).—Establishments primarily engaged in manufacturing miscellaneous fabricated products, including fire extinguishers; beauty shop and barber shop equipment; hair work; tobacco pipes and cigarette holders; coin-operated amusement machines; and many other articles, n.e.c.

19 ORDNANCE AND ACCESSORIES

This major group includes establishments engaged in manufacturing artillery, small arms, and related equipment; ammunition; complete guided missiles; tanks and specialized tank parts; sighting and fire control equipment; and miscellaneous ordnance and accessories, n.e.c.

191 GUNS, HOWITZERS, MORTARS, AND RELATED EQUIPMENT OVER 30 MM (OR OVER 1.18 INCHES):

1911 Guns, Howitzers, Mortars, and Related Equipment Over 30MM (Or Over 1.18 inches) (S-NA); C-(NA)).—Establishments primarily engaged in manufacturing naval, aircraft, antiaircraft, tank, coast and field artillery having a bore over 30 mm (or over 1.18 inch) and components. Establishments primarily engaged in manufacturing small arms and parts 30 mm (or 1.18 inch) and below are classified in industry 1951.

192 AMMUNITION, EXCEPT FOR SMALL ARMS:

1925 Guided Missiles and Space Vehicles, Completely Assembled (S-94; C-69).—Establishments primarily engaged in manufacturing complete guided missiles and space vehicles and in doing research and development on complete guided missiles and space vehicles. Establishments engaged in manufacturing guided missile components and in doing research and development on guided missile components are classified in industry 3729.

1929 Ammunition, Except for Small Arms, N.E.C. (S-70; C-82).—Establishments primarily engaged in manufacturing ammunition, n.e.c. or in loading and assembling ammunition over 30 mm (or over 1.18 inch)for naval, aircraft, antiaircraft, tank, coast, and field artillery; including component parts. This industry also includes establishments primarily engaged in manufacturing bombs, mines, torpedoes, grenades, depth charges, chemical warfare projectiles, and their component parts. Establishments primarily engaged in manufacturing small arms ammunition are classified in industry 1961; explosives in industry 2892 and military pyrotechnics are classified in industry 2899.

193 TANKS AND TANK COMPONENTS:

1931 Tanks and Tank Components (S-95; C-79).—Establishments primarily engaged in manufacturing or assembling complete tanks, and specialized components for tanks. Establishments primarily engaged in manufacturing military vehicles other than tanks are classified in Industry Group 371 and tank engines in industry 3519.

194 SIGHTING AND FIRE CONTROL EQUIPMENT:

1941 Sighting and Fire Control Equipment (S-57; C-80).—Establishments primarily engaged in manufacturing sighting and fire control equipment, but which are not engaged in manufacturing optical lenses and prisms. Important products of this industry include bomb sights, percentage correctors, wind correctors, directors and sound locators. Establishments engaged in manufacturing optical lenses and prisms and also manufacturing sighting and fire control equipment are classified in industry 3831.

195 SMALL ARMS:

1951 Small Arms, 30 mm and Under (or 1.18 Inches and Under) (S-95; C-82).—Establishments primarily engaged in manufacturing small firearms having a bore 30 mm (or 1.18 inch) and below, and parts for small firearms. Establishments primarily engaged in manufacturing artillery and mortars having a bore over 30 mm (or over 1.18 inch), and component parts are classified in industry 1911.

196 SMALL ARMS AMMUNITION:

1961 Small Arms Ammunition 30 mm and Under (or 1.18 Inches and Under) (S-85-90; C-92).—Establishments primarily engaged in manufacturing ammunition for small arms having a bore of 30 mm (or 1.18 inch) and below. Establishments primarily engaged in manufacturing ammunition except for small arms are classified in Industry Group 192; blasting and detonating caps, and safety fuses in industry 2892; and fireworks in industry 2899.

199 ORDNANCE AND ACCESSORIES, N.E.C.:

1999 Ordnance and Accessories, N.E.C. (S-78; C-69) [27].—This industry comprises establishments primarily engaged in manufacturing ordnance and accessories, n.e.c.

(NA) Not available.
D Withheld to avoid disclosing figures for individual companies.

[1] Percentages are based on figures containing significant duplication.

[2] This ratio results from inclusion of finished cotton broad woven fabrics (except commission finishing) which are also primary to industry 2211. A coverage ratio computed on the basis of including both industries to which finished synthetic broad woven fabrics are primary would come to 77 percent.

[3] This ratio results from inclusion of finished broad woven synthetic fabrics (except commission finishing) which are also primary to industry 2221. A coverage ratio computed on the basis of including both industries to which finished synthetic broad woven fabrics are primary would come to 77 percent.

[4] This ratio results from inclusion of finished yarns except wool, also primary to industry 2281. A coverage ratio computed on the basis of including both industries to which finished yarns, except wool, are primary would come to 90 percent in 1963.

[5] Includes products of knitting mills (SIC Group 225) which are primary to industries 2253 and 2254.

[6] Includes similar products made in knitting mills.

[7] Low coverage ratio due to large amount of wood chips, primary to industry 2429, manufactured in industry 2421.

[8] The products of Government-owned, privately operated establishments did not enter into the calculation of these ratios. All receipts by these establishments were treated as "Miscellaneous receipts" rather than as primary or secondary products.

[9] Includes lubricating oils and greases, also primary to industry 2992.

[10] Includes lubricating oils and greases, also primary to industry 2911. For 1963, the coverage ratio computed on the basis of including both industries to which lubricating oils and greases are primary would come to 98 percent, 65 percent by industry 2911 and 33 percent by industry 2992. Computed on the basis of excluding 2911, the 1963 coverage ratio is 93 percent for 2992.

[11] This is a minimum percentage. The exact percentage cannot be shown without disclosing figures for individual companies.

[12] The value of shipments for this industry includes duplication; the products of some establishments are used as materials by others. Specialization ratio computed on the basis of net value of shipments would approximate 94 percent. A coverage ratio for this industry cannot be precisely computed. However, such a ratio would exceed 86 percent.

[13] Includes small amount of primary products made in other industries to avoid disclosing figures for individual companies. This amount, however, constitutes less than 2 percent of the total.

[14] Ratios have not been calculated because the shipments of primary products contain extensive duplication.

[15] Included in this industry is refined zinc, also primary to industry 3341. A coverage ratio computed on the basis of including both industries to which refined zinc is primary would total 96 percent: 81 percent by industry 3333 and 15 percent by industry 3641.

[16] Included in this industry are aluminum-base alloys, also primary to industry 3341, and industry 3352. A coverage ratio computed on the basis of including all three industries to which aluminum-base alloys are primary would total 96 percent: 75 percent by industry 3334; 17 percent by industry 3341; and 4 percent by industry 3352.

[17] Included in this industry are refined nonferrous alloys, n.e.c., also primary to industry 3341. A coverage ratio computed on the basis of including both industries to which refined nonferrous alloys, n.e.c., are primary would total 59 percent: 39 percent by industry 3341; 20 percent by industry 3341.

[18] Included in this industry are refined copper, lead, zinc, aluminum, precious metals, and other nonferrous metals. Each of these is also primary to the comparable primary smelting and refining industry in Industry Group 333. A coverage ratio computed on the basis of including both industries to which these products are primary would total 89 percent: 26 percent by industry 3341; 63 percent by primary nonferrous smelters and refiners.

[19] Included in this industry is aluminum and aluminum-base alloy wire (including ACSR), also primary to industry 3357. A coverage ratio computed on the basis of including both industries to which aluminum and aluminum-base alloy wire (including ACSR) is primary, would, in 1963, total 96 percent: 93 percent by industry 3352, and 3 percent by industry 3357. For 1958, comparable percentage was 96: 92 percent by industry 3352 and 4 percent by industry 3357.

[20] Included in this industry is other nonferrous metal wire, also primary to industry 3357. A coverage ratio computed on the basis of including both industries to which nonferrous metal wire is primary would, in 1963, total 85 percent: 81 percent by industry 3356 and 4 percent by industry 3357.

[21] Included in this industry are aluminum and aluminum-base alloy wire (including ACSR), other nonferrous metal wire, nonferrous woven wire products, and appliance wire and cord and flexible cord sets, also primary respectively to industries 3352, 3356, 3481, and 3699. A coverage ratio computed on the basis of including the industries to which these products are primary would, in 1963, total 94 percent: 86 percent by industry 3357; and 8 percent by industries 3352, 3356, 3481, and 3699.

[22] Included in this industry are open die hammer and press forgings, also primary to industry 3312. A coverage ratio computed on the basis of including both industries to which open die hammer and press forgings are primary would total 80 percent: 69 percent by industry 3391 and 11 percent by industry 3312.

[23] Specialization ratio not meaningful because of predominance of receipts for contract and commission work on materials owned by others. Such receipts are treated as primary products for this industry.

[24] Data on receipts for the primary services of this industry are not available for establishments classified in other industries.

[25] Included in this industry are selected fabricated wire products also primary to industry 3315. A coverage ratio computed on the basis of including both industries to which these products are primary would total 79 percent: 65 percent by industry 3481 and 14 percent by industry 3315.

[26] Included in this industry are appliance wire and cord sets, also primary to industry 3357. For 1963, a coverage ratio computed on the basis of including both industries to which appliance wire and cord sets are primary would total 79 percent: 49 percent by industry 3699 and 30 percent by industry 3357.

[27] Calculated on the basis of inclusion of the products primary to industry 1911 as primary to industry 1999. The coverage ratio for industry 1999 alone is 72 percent.

REFERENCE COPY

1963 CENSUS OF MANUFACTURES

CHANGE SHEET

Volume I, Summary and Subject Statistics and Volume III, Area Statistics

The following page B-29, should be inserted after B-28 in Volume I, Summary and Subject Statistics and in Volume III, Area Statistics.

U.S. DEPARTMENT OF COMMERCE Alexander B. Trowbridge, Secretary
William H. Shaw Asst. Secy., Economic Affairs
BUREAU OF THE CENSUS A. Ross Eckler, Director

Appendix C

COMPOSITION OF INDUSTRIES IN THE 1963 STANDARD INDUSTRIAL CLASSIFICATION

The 1963 and 1958 Censuses of Manufactures covered all establishments primarily engaged in manufacture as defined in the revised edition of the **Standard Industrial Classification Manual** (SIC), issued by the Bureau of the Budget. For 1958, the published census statistics were for the manufacturing industries as defined in the 1957 edition of the SIC Manual. For 1963, statistics are for the manufacturing industries as defined in an amended version of the 1957 edition.

The 1957 revised edition of the classification represented a considerable revision from the previously existing structure. Several appendixes in the published volumes of the 1958 Census of Manufactures dealt with the contents of that revision as it affected the manufacturing sector. (See 1958 Appendix A, "Notes on Comparability of 1954 and 1958 Data for Selected Industries and Industry Groups;" Appendix B, "Industry Descriptions;" and Appendix C, "Composition of Industries in the New SIC.") Several appendixes to the 1963 Census of Manufactures volumes, including this appendix, likewise make reference to the relatively minor revisions of the SIC following the issuance of the 1957 revised edition.

Presented in two parts, this appendix traces, in part 1, the industries as defined for 1963 in terms of their 1958 counterparts and, in part 2, the industries as defined for 1958 in terms of their 1963 equivalents. Where no change in code or definition occurred, the short industry title and 4-digit code apply to both census years. Most of the industries fall into this category. Where change occurred, the title for a line showing only a 1958 code is a 1958 title and that for a line showing only a 1963 code, a 1963 title. In these instances of change in the SIC (a new industry broken out of an existing industry, existing industries combined into one, or products shifted between existing industries) the relationship between the two periods is clarified by the manner of presentation. For example, in part 2, in the columns under "Industry code," the 1958 SIC industry 2025, "Special Dairy Products," is shown as part of 1963 industry 2022, "Natural and Process Cheese." This situation, that is, being part of an industry in the other year, is notated by an asterisk (*). Part 2 also indicates that 1958 industry 2022, "Natural Cheese," is likewise a part of 1963 industry 2022. Part 1 shows that, for 1963, industry 2022 encompasses 1958 industries 2022 and 2025. Thus, to determine comparability between the years, parts 1 and 2 of this appendix should be studied together. In both parts, 1963 data shown are for the following items: Number of establishments (total and those with 20 employees or more); employment; and value added by manufacture.

The manner of coding products and classifying establishments in the 1963 Census of Manufactures (utilizing only 1963 SIC codes) did not, in general, permit a tabulation of 1963 data in terms of 1958 industry definitions. Thus, in part 2 it was not possible to show the data for that part of 1963 industry 2022 which is equivalent to 1958 industry 2025. However, where the change in industry definition between the two years was such as to subdivide an old SIC industry into two new industries, the 1963 data for the former industry can be derived by summing the figures for the component parts; e.g., the 1958 industry 2649, "Paper and Board Products, N.E.C.," consists of the 1963 industries 2647 and 2649, and totals for 2647 and 2649 are added together in part 2 to show their 1958 SIC industry equivalent.

Manufacturing industry codes used by the Bureau of the Census are identical to the SIC industry codes, with a single exception: SIC industries 3711 (Motor Vehicles), 3712 (Passenger Car Bodies), and 3714 (Motor Vehicle Parts and Accessories) are combined by Census into a single industry, number 3717 entitled "Motor Vehicles and Parts."

Composition of Industries in the 1963 SIC

Part 1. Derivation of 1963 SIC Industries from 1958 SIC Industries

Industry code		Industry title	Establishments		All employees	Value added by manufacture
1963 SIC	1958 SIC		Total (number)	With 20 employees or more (number)	(number)	($1,000)
2011	2011	Meat slaughtering plants	2,992	976	180,873	1,908,309
2013	2013	Meat processing plants	1,341	483	48,599	563,362
2015	2015	Poultry dressing plants	967	559	70,104	410,909
2021	2021	Creamery butter	766	178	11,992	132,665
2022	----	Natural and process cheese	1,138	206	17,956	179,750
	2022	Natural cheese	1,138	206	17,956	179,750
	2025	Special dairy products				
2023	2023	Condensed and evaporated milk	281	166	12,255	236,250
2024	2024	Ice cream and frozen desserts	1,081	387	29,143	433,006
2026	2026	Fluid milk	4,619	1,948	185,050	2,203,196
2031	2031	Canned and cured seafoods	405	196	17,271	174,634
2032	2032	Canned specialties	173	77	25,156	540,835
2033	2033	Canned fruits and vegetables	1,430	836	102,388	1,029,467
2034	2034	Dehydrated foods products	176	80	9,152	115,795
2035	2035	Pickles, sauces, salad dressings	588	184	19,041	249,397
2036	2036	Fresh or frozen packaged fish	547	255	20,066	118,451
2037	2037	Frozen fruits and vegetables	650	346	51,750	550,231
2041	2041	Flour mills	618	218	22,405	373,090
2042	2042	Prepared animal feeds	2,590	711	54,649	983,691
2043	2043	Cereal preparations	48	30	11,358	365,022
2044	2044	Rice milling	74	49	4,256	80,507
2045	2045	Blended and prepared flour	165	60	7,199	177,826
2046	2046	Wet corn milling	60	20	13,236	290,918
2051	2051	Bread and related products	5,010	1,904	236,984	2,403,782
2052	2052	Biscuit, crackers and cookies	356	208	43,160	627,040
2061	2061	Raw cane sugar	74	73	8,263	135,686
2062	2062	Cane sugar refining	25	25	12,443	254,418
2063	2063	Beet sugar	65	62	11,297	200,698
2071	2071	Confectionery products	1,211	411	63,643	635,393
2072	2072	Chocolate and cocoa products	28	23	8,743	184,796
2073	2073	Chewing gum	24	17	5,558	135,848
2082	2082	Malt liquors	222	180	62,643	1,286,036
2083	2083	Malt	42	31	1,925	43,979
2084	2084	Wines and brandy	222	70	6,111	137,281
2085	2085	Distilled liquor, except brandy	107	89	18,009	623,736
2086	2086	Bottled and canned soft drinks	3,905	1,530	106,850	1,233,629
2087	2087	Flavorings	520	97	9,083	400,173
2091	2091	Cottonseed oil mills	188	153	8,372	100,815
2092	2092	Soybean oil mills	102	71	6,478	152,143
2093	2093	Vegetable oil mills, n.e.c.	47	22	1,952	42,692
2094	----	Animal and marine fats and oils	615	211	14,276	193,326
	2094	Grease and tallow	615	211	14,276	193,326
	2095	Animal oils, n.e.c.				
2095	----	Roasted coffee	324	133	17,175	616,407
	2099*	Food preparations, n.e.c.	324	133	17,175	616,407
2096	2096	Shortening and cooking oils	115	86	13,511	264,501
2097	2097	Manufactured ice	1,199	135	10,757	90,204
2098	2098	Macaroni and spaghetti	221	70	7,270	96,012
2099	----	Food preparations, n.e.c.	2,190	547	54,277	849,610
	2099*	Food preparations, n.e.c.	2,190	547	54,277	849,610
2111	2111	Cigarettes	14	14	35,568	1,310,325
2121	2121	Cigars	193	82	20,731	192,998
2131	2131	Chewing and smoking tobacco	51	25	4,058	73,975
2141	2141	Tobacco stemming and redrying	136	110	16,973	103,296
2211	2211	Weaving mills, cotton	407	350	208,993	1,256,753
2221	2221	Weaving mills, synthetics	355	300	88,157	661,535
2231	2231	Weaving, finishing mills, wool	361	249	47,429	386,622
2241	2241	Narrow fabric mills	384	215	23,154	172,493

*Represents part of the specified industry. (NA) Not available.

Part 1. Derivation of 1963 SIC Industries from 1958 SIC Industries--Continued

Industry code		Industry title	Establishments		All employees	Value added by manufacture
1963 SIC	1958 SIC		Total (number)	With 20 employees or more (number)	(number)	($1,000)
2251	----	Women's hosiery,except socks	409	266	50,869	292,644
	2251	Full-fashioned hosiery mills	409	266	50,869	292,644
	2252*	Seamless hosiery mills				
2252	----	Hosiery, n.e.c	530	340	43,998	195,867
	2252*	Seamless hosiery mills	530	340	43,998	195,867
2253	2253	Knit outerwear mills	1,185	666	68,570	463,585
2254	2254	Knit underwear mills	118	104	28,364	170,709
2256	2256	Knit fabric mills	518	243	25,046	252,908
2259	2259	Knitting mills, n.e.c	88	45	3,639	20,309
2261	2261	Finishing plants, cotton	238	140	42,055	332,290
2262	2262	Finishing plants, synthetic	205	138	19,528	176,819
2269	2269	Finishing plants, n.e.c	178	85	9,236	73,159
2271	2271	Woven carpets and rugs	64	31	13,357	120,004
2272	2272	Tufted carpets and rugs	181	121	19,854	259,343
2279	2279	Carpets and rugs, n.e.c	104	35	2,445	15,595
2281	2281	Yarn mills, except wool	317	284	61,647	363,177
2282	2282	Throwing and winding mills	180	110	13,559	93,649
2283	2283	Wool yarn mills	144	121	17,385	119,718
2284	2284	Thread mills	71	36	10,056	75,821
2291	2291	Felt goods, n.e.c	36	30	4,952	58,625
2292	2292	Lace goods	152	51	4,912	31,472
2293	2293	Padding and upholstery filling	183	73	6,932	65,588
2294	2294	Processed textile waste	141	59	4,240	30,961
2295	2295	Coated fabric, not rubberized	161	86	13,475	177,307
2296	2296	Tire cord and fabric	20	19	9,163	72,267
2297	2297	Scouring and combing plants	69	38	5,798	45,402
2298	2298	Cordage and twine	167	76	8,920	57,614
2299	2299	Textile goods, n.e.c	137	56	7,283	78,746
2311	2311	Men's and boys' suits and coats	1,112	635	122,679	831,910
2321	2321	Men's dress shirts and nightwear	834	566	113,193	601,620
2322	2322	Men's and boys' underwear	80	63	12,084	63,186
2323	2323	Men's and boys' neckwear	341	117	8,385	58,136
2327	2327	Separate trousers	735	423	73,848	383,134
2328	2328	Work clothing	439	353	62,477	330,653
2329	2329	Men's and boys' clothing, n.e.c	554	365	35,917	183,224
2331	2331	Women's blouses	1,175	718	57,595	300,525
2335	2335	Women's dresses	4,752	3,013	200,003	1,180,883
2337	2337	Women's suits, coats and skirts	2,516	1,380	88,332	637,869
2339	2339	Women's outerwear, n.e.c	1,297	709	59,536	340,462
2341	2341	Women's and children's underwear	1,069	628	76,723	430,771
2342	2342	Corsets and allied garments	351	234	37,144	310,150
2351	2351	Millinery	711	221	14,183	93,168
2352	2352	Hats and caps	436	173	16,608	91,277
2361	2361	Children's dresses and blouses	667	412	35,792	205,623
2363	2363	Children's coats and suits	285	152	11,848	72,735
2369	2369	Children's outerwear, n.e.c	624	360	34,244	188,344
2371	2371	Fur goods	1,591	94	9,289	110,619
2381	2381	Fabric dress and work gloves	197	103	12,771	64,372
2384	2384	Robes and dressing gowns	271	144	11,889	68,717
2385	2385	Waterproof outergarments	341	196	16,148	111,342
2386	2386	Leather and sheeplined clothing	114	50	3,352	23,351
2387	2387	Apparel belts	389	141	9,841	62,172
2389	2389	Apparel, n.e.c	270	108	7,225	43,211
2391	2391	Curtains and draperies	1,121	255	21,955	131,995
2392	2392	Housefurnishings, n.e.c	1,239	422	39,690	285,759
2393	2393	Textile bags	192	88	7,191	56,523
2394	2394	Canvas products	881	124	11,170	73,534
2395	2395	Pleating and stitching	1,316	245	16,353	95,240
2396	2396	Apparel findings	756	213	24,539	227,810
2397	2397	Schiffli machine embroideries	759	68	6,145	55,411
2399	2399	Textile products, n.e.c	1,044	240	21,350	145,153

*Represents part of the specified industry. (NA) Not available.

Part 1. Derivation of 1963 SIC Industries from 1958 SIC Industries--Continued

Industry code		Industry title	Establishments		All employees	Value added by manufacture
1963 SIC	1958 SIC		Total (number)	With 20 employees or more (number)	(number)	($1,000)
2411	2411	Logging camps and contractors	13,588	557	73,130	520,457
2421	2421	Sawmills and planing mills	12,189	2,151	207,365	1,376,080
2426	2426	Hardwood dimension and flooring	642	317	28,128	155,083
2429	2429	Special product sawmills, n.e.c	541	107	7,164	41,355
2431	2431	Millwork plants	3,770	748	65,283	524,041
2432	2432	Veneer and plywood plants	641	503	66,155	559,211
2433	2433	Prefabricated wood products	559	203	15,806	156,593
2441	2441	Nailed wooden boxes and shook	663	183	14,483	85,046
2442	2442	Wirebound boxes and crates	117	70	9,893	55,606
2443	2443	Veneer and plywood containers	99	44	3,953	16,086
2445	2445	Cooperage	107	23	2,616	17,494
2491	2491	Wood preserving	338	157	11,178	93,265
2499	----	Wood products, n.e.c	2,896	702	57,981	420,283
	2499	Wood products, n.e.c	} 2,896	702	57,981	420,283
	2661*	Building paper and board mills				
2511	2511	Wood furniture, not upholstered	3,063	992	140,982	993,200
2512	2512	Wood furniture, upholstered	1,785	713	67,850	506,727
2514	2514	Metal household furniture	517	244	29,346	247,003
2515	2515	Mattresses and bedsprings	1,120	340	30,061	285,510
2519	2519	Household furniture, n.e.c	75	30	2,054	15,054
2521	2521	Wood office furniture	138	58	6,516	57,018
2522	2522	Metal office furniture	170	107	19,928	228,329
2531	2531	Public building furniture	430	165	17,317	147,253
2541	2541	Wood partitions and fixtures	1,594	347	24,343	219,194
2542	2542	Metal partitions and fixtures	513	167	20,290	214,301
2591	2591	Venetian blinds and shades	717	59	10,102	88,905
2599	2599	Furniture and fixtures, n.e.c	356	91	7,540	65,871
2611	2611	Pulp mills	45	40	15,123	295,804
2621	2621	Paper mills, except building	325	313	129,848	1,857,203
2631	2631	Paperboard mills	271	259	63,398	1,186,224
2641	2641	Paper coating and glazing	387	181	31,983	457,367
2642	2642	Envelopes	230	173	20,728	188,963
2643	2643	Bags, except textile bags	586	297	42,343	369,685
2644	2644	Wallpaper	79	31	2,194	20,907
2645	2645	Die cut paper and board	425	156	15,135	183,185
2646	2646	Pressed and molded pulp goods	59	42	5,720	70,006
2647	----	Sanitary paper products	119	77	19,108	369,711
	2649*	Paper and board products, n.e.c	119	77	19,108	369,711
2649	----	Converted paper products, n.e.c	610	239	29,514	302,546
	2649*	Paper and board products, n.e.c	610	239	29,514	302,546
2651	2651	Folding paperboard boxes	636	418	51,291	476,866
2652	2652	Set-up paperboard boxes	503	317	20,459	131,688
2653	2653	Corrugated shipping containers	923	651	83,229	804,012
2654	2654	Sanitary food containers	186	144	32,879	402,211
2655	2655	Fiber cans, tubes, drums, etc	246	137	13,188	126,196
2661	----	Building paper and board mills	83	77	11,874	153,103
	2661*	Building paper and board mills	83	77	11,874	153,103
2711	2711	Newspapers	8,331	1,865	306,439	3,201,872
2721	2721	Periodicals	2,630	402	67,730	1,349,030
2731	2731	Books, publishing and printing	993	256	46,812	995,736
2732	2732	Book printing	683	275	36,101	358,294
2741	2741	Miscellaneous publishing	1,374	177	22,551	252,932
2751	2751	Printing, except lithographic	12,109	1,404	170,215	1,578,275
2752	2752	Printing, lithographic	6,822	1,339	121,072	1,302,046
2753	2753	Engraving and plate printing	580	105	9,022	80,748
2761	2761	Manifold business forms	502	250	28,796	377,710
2771	2771	Greeting card manufacturing	257	93	21,535	204,608

*Represents part of the specified industry. (NA) Not available.

Part 1. Derivation of 1963 SIC Industries from 1958 SIC Industries--Continued

Industry code		Industry title	Establishments		All employees	Value added by manufacture
1963 SIC	1958 SIC		Total (number)	With 20 employees or more (number)	(number)	($1,000)
2782	2782	Blank books; looseleaf binders	410	158	17,899	168,465
2789	2789	Bookbinding and related work	1,043	311	24,338	172,298
2791	2791	Typesetting	1,289	282	20,997	205,450
2793	2793	Photoengraving	883	218	14,620	171,796
2794	2794	Electrotyping and stereotyping	184	80	5,116	57,173
2812	2812	Alkalies and chlorine	38	37	19,652	389,243
2813	2813	Industrial gases	456	146	9,809	260,182
2814	2814	Cyclic (coal tar) crudes	36	17	1,636	35,103
2815	2815	Intermediate coal tar products	141	84	26,089	570,234
2816	2816	Inorganic pigments	96	49	11,544	286,407
2818	2818	Organic chemicals, n.e.c.	464	241	85,492	2,727,450
2819	2819	Inorganic chemicals, n.e.c.	674	323	82,430	1,902,563
2821	2821	Plastics materials and resins	509	256	61,366	1,202,349
2822	2822	Synthetic rubber	24	24	11,840	329,520
2823	2823	Cellulosic man-made fibers	19	19	30,086	411,529
2824	2824	Organic fibers, noncellulosic	25	24	41,421	922,001
2831	2831	Biological products	113	40	5,789	60,377
2833	2833	Medicinals and botanicals	138	42	8,128	151,297
2834	2834	Pharmaceutical preparations	1,011	319	85,084	2,595,657
2841	2841	Soap and other detergents	704	172	30,794	1,137,425
2842	2842	Polishes and sanitation goods	1,101	173	16,332	420,440
2843	2843	Surface active agents	148	59	4,108	75,698
2844	2844	Toilet preparations	707	183	34,338	1,232,883
2851	----	Paints and allied products	1,788	654	61,267	1,111,681
	2851	Paints and varnishes	1,788	654	61,267	1,111,681
	2852	Putty and caulking compounds				
2861	2861	Gum and wood chemicals	246	53	6,787	100,329
2871	2871	Fertilizers	281	199	19,992	287,800
2872	2872	Fertilizers, mixing only	733	232	13,752	164,140
2879	----	Agricultural chemicals, n.e.c.	340	112	9,090	176,333
	2873	Agricultural pesticides	340	112	9,090	176,333
	2879	Agricultural chemicals, n.e.c.				
2891	2891	Glue and gelatin	368	104	8,521	147,006
2892	2892	Explosives	68	47	14,814	165,733
2893	2893	Printing ink	348	103	8,455	125,138
2895	2895	Carbon black	33	31	3,010	91,752
2899	----	Chemical preparations, n.e.c.	1,384	242	25,788	505,868
	2894	Fatty acids	12	(NA)	1,711	36,473
	2899	Chemical preparations, n.e.c.	1,372	(NA)	24,077	469,395
2911	2911	Petroleum refining	427	297	119,297	3,137,603
2951	2951	Paving mixtures and blocks	762	127	9,680	165,584
2952	2952	Asphalt felts and coatings	230	140	14,581	189,981
2992	2992	Lubricating oils and greases	353	108	8,433	199,074
2999	2999	Petroleum and coal products, n.e.c.	67	17	1,495	20,989
3011	3011	Tires and inner tubes	155	96	85,259	1,321,712
3021	3021	Rubber footwear	53	46	29,147	216,959
3031	3031	Reclaimed rubber	13	13	2,010	27,378
3069	3069	Rubber products, n.e.c.	1,173	620	132,228	1,427,022
3079	3079	Plastic products, n.e.c.	4,334	1,674	166,315	1,660,882
3111	3111	Leather tanning and finishing	525	256	31,417	273,092
3121	3121	Industrial leather belting	83	23	2,870	32,915
3131	3131	Footwear cut stock	446	204	14,339	90,611
3141	3141	Shoes, except rubber	1,040	815	201,728	1,214,740
3142	3142	House slippers	153	97	11,039	64,555
3151	3151	Leather gloves	166	87	7,718	32,194
3161	3161	Luggage	379	145	16,409	112,796
3171	3171	Handbags and purses	545	262	24,548	142,554
3172	3172	Small leather goods	340	117	12,432	82,385
3199	3199	Leather goods, n.e.c.	370	67	4,989	32,730

*Represents part of the specified industry. (NA) Not available.

Composition of Industries in the 1963 SIC--Continued

Part 1. Derivation of 1963 SIC Industries from 1958 SIC Industries--Continued

Industry code		Industry title	Establishments		All employees	Value added by manufacture
1963 SIC	1958 SIC		Total (number)	With 20 employees or more (number)	(number)	($1,000)
3211	3211	Flat glass	31	30	22,815	364,466
3221	3221	Glass containers	113	105	59,987	629,608
3229	3229	Pressed and blown glass, n.e.c.	107	95	37,999	472,212
3231	3231	Products of purchased glass	1,044	249	26,158	309,734
3241	3241	Cement, hydraulic	188	179	34,863	785,681
3251	3251	Brick and structural tile	512	400	28,620	216,548
3253	3253	Ceramic wall and floor tile	90	64	12,795	110,571
3255	3255	Clay refractories	150	109	11,431	118,248
3259	3259	Structural clay products, n.e.c.	164	108	12,188	108,442
3261	3261	Vitreous plumbing fixtures	49	43	9,280	101,502
3262	3262	Vitreous china food utensils	31	21	6,314	42,504
3263	3263	Fine earthenware food utensils	21	18	7,349	41,046
3264	3264	Porcelain electrical supplies	79	49	10,170	90,001
3269	3269	Pottery products, n.e.c.	458	98	9,085	62,107
3271	3271	Concrete block and brick	1,841	367	23,759	245,525
3272	3272	Other concrete products	3,451	716	52,297	539,967
3273	3273	Ready mixed concrete	4,621	1,021	71,523	981,997
3274	3274	Lime	125	68	6,778	95,135
3275	3275	Gypsum products	122	72	11,491	259,659
3281	3281	Cut stone and stone products	893	211	18,340	131,465
3291	3291	Abrasive products	378	149	28,170	416,415
3292	3292	Asbestos products	124	84	19,516	269,067
3293	3293	Gaskets and insulations	295	111	16,825	160,734
3295	3295	Minerals, ground or treated	415	97	7,330	102,079
3296	3296	Mineral wool	123	67	14,733	206,846
3297	3297	Nonclay refractories	93	68	8,572	129,139
3299	3299	Nonmetallic products, n.e.c.	320	56	5,471	53,289
3312	3312	Blast furnaces and steel mills	288	247	500,550	7,506,433
3313	3313	Electrometallurgical products	36	30	10,437	145,503
3315	3315	Steel wire drawing, etc.	200	133	21,280	253,009
3316	3316	Cold finishing of steel shapes	81	68	13,700	223,977
3317	3317	Steel pipe and tube	141	115	22,882	295,242
3321	3321	Gray iron foundries	1,139	767	120,528	1,168,478
3322	3322	Malleable iron foundries	81	71	22,297	204,557
3323	3323	Steel foundries	267	220	56,810	586,914
3331	3331	Primary copper	33	33	14,949	285,510
3332	3332	Primary lead	10	10	2,578	24,876
3333	3333	Primary zinc	18	18	8,065	98,789
3334	3334	Primary aluminum	23	22	18,133	499,576
3339	3339	Primary nonferrous metals, n.e.c.	35	26	5,064	103,830
3341	3341	Secondary nonferrous metals	459	179	15,445	228,190
3351	3351	Copper rolling and drawing	112	92	38,949	478,393
3352	3352	Aluminum rolling and drawing	212	153	54,263	721,171
3356	3356	Rolling and drawing, n.e.c.	125	67	17,375	250,589
3357	3357	Nonferrous wire drawing, etc.	299	227	56,418	677,535
3361	3361	Aluminum castings	954	321	36,216	343,863
3362	3362	Brass, bronze, copper castings	549	193	15,341	144,092
3369	3369	Nonferrous castings, n.e.c.	391	165	17,686	168,530
3391	3391	Iron and steel forgings	272	189	36,317	395,302
3392	3392	Nonferrous forgings	34	19	6,297	71,378
3399	3399	Primary metal industries, n.e.c.	754	218	14,956	192,250
3411	3411	Metal cans	270	206	53,245	830,515
3421	3421	Cutlery	161	67	11,837	213,998
3423	3423	Hand and edge tools	716	255	31,480	364,265
3425	3425	Hand saws and saw blades	76	42	5,095	65,634
3429	3429	Hardware, n.e.c.	1,070	447	88,729	1,069,080
3431	3431	Metal plumbing fixtures	81	45	11,011	139,859

*Represents part of the specified industry. (NA) Not available.

Part 1. Derivation of 1963 SIC Industries from 1958 SIC Industries--Continued

Industry code		Industry title	Establishments		All employees	Value added by manufacture
1963 SIC	1958 SIC		Total (number)	With 20 employees or more (number)	(number)	($1,000)
3432	3432	Plumbing fittings, brass goods	250	102	15,129	154,752
3433	3433	Heating equipment, except electric	648	280	42,020	495,652
3441	3441	Fabricated structural steel	1,718	817	85,423	814,805
3442	3442	Metal doors, sash, and trim	1,817	628	62,799	570,370
3443	3443	Boiler shop products	1,383	601	75,018	770,064
3444	3444	Sheet metal work	3,250	755	61,651	632,384
3446	----	Architectural metal work	1,334	173	15,587	148,763
	3449*	Miscellaneous metal work, n.e.c	1,334	173	15,587	148,763
3449	----	Miscellaneous metal work, n.e.c	697	246	24,992	283,427
	3449*	Miscellaneous metal work, n.e.c	697	246	24,992	283,427
3451	3451	Screw machine products	1,874	516	36,909	358,961
3452	3452	Bolts, nuts, rivets and washers	573	323	57,618	695,276
3461	3461	Metal stampings	2,574	1,116	132,179	1,368,993
3471	3471	Plating and polishing	3,023	677	44,962	370,202
3479	3479	Metal coating, engraving, etc	1,258	276	20,669	184,546
3481	3481	Fabricated wire products, n.e.c	1,567	557	55,514	539,137
3491	3491	Metal barrels, drums, and pails	145	93	10,508	119,617
3492	3492	Safes and vaults	32	15	3,346	56,223
3493	3493	Steel springs	96	49	6,287	69,305
3494	3494	Valves and pipe fittings	646	374	80,407	942,700
3496	3496	Collapsible tubes	24	19	3,984	30,562
3497	3497	Metal foil and leaf	67	40	4,981	63,486
3498	3498	Fabricated pipe and fittings	349	146	13,007	144,598
3499	3499	Fabricated metal products, n.e.c	1,277	346	28,302	299,326
3511	3511	Steam engines and turbines	22	21	30,917	379,875
3519	3519	Internal combustion engines	143	81	55,687	733,628
3522	3522	Farm machinery and equipment	1,568	558	112,614	1,328,381
3531	3531	Construction machinery	617	305	104,520	1,301,266
3532	3532	Mining machinery and equipment	204	93	16,910	215,406
3533	3533	Oilfield machinery	408	176	29,203	398,152
3534	3534	Elevators and moving stairways	142	74	12,393	201,527
3535	3535	Conveyors	454	175	20,778	270,475
3536	3536	Hoists, cranes, and monorails	120	56	9,585	112,327
3537	3537	Industrial trucks and tractors	314	108	17,570	233,116
3541	3541	Metal-cutting machine tools	801	269	61,058	699,341
3542	3542	Metal-forming machine tools	366	146	22,078	281,287
3544	3544	Special dies and tools	5,896	1,133	90,860	1,029,338
3545	3545	Machine tool accessories	1,038	347	46,994	559,258
3548	3548	Metalworking machinery, n.e.c	435	168	38,012	468,435
3551	3551	Food products machinery	681	279	31,684	380,406
3552	3552	Textile machinery	561	216	36,004	314,190
3553	3553	Woodworking machinery	249	91	12,057	146,998
3554	3554	Paper industries machinery	217	92	18,605	217,475
3555	3555	Printing trades machinery	490	136	22,952	285,879
3559	3559	Special industry machinery, n.e.c	1,091	387	49,950	561,768
3561	3561	Pumps and compressors	642	267	61,322	768,787
3562	3562	Ball and roller bearings	125	93	52,316	627,694
3564	3564	Blowers and fans	237	97	15,244	180,801
3565	3565	Industrial patterns	1,209	106	9,914	112,587
3566	3566	Power transmission equipment	532	272	46,670	555,710
3567	3567	Industrial furnaces and ovens	239	94	12,394	153,477
3569	3569	General industry machines, n.e.c	777	277	35,559	424,084
3571	3571	Computing and related machines	248	139	96,370	1,101,484
3572	3572	Typewriters	21	16	18,023	243,190
3576	3576	Scales and balances	85	35	5,765	64,362
3579	3579	Office machines, n.e.c	161	75	16,980	224,654
3581	3581	Automatic vending machines	158	68	11,672	121,365
3582	3582	Commercial laundry equipment	115	58	6,542	70,771
3585	3585	Refrigeration machinery	698	347	72,330	892,686
3586	3586	Measuring and dispensing pumps	43	27	6,768	91,713

*Represents part of the specified industry. (NA) Not available.

Part 1. Derivation of 1963 SIC Industries from 1958 SIC Industries--Continued

Industry code		Industry title	Establishments		All employees	Value added by manufacture
1963 SIC	1958 SIC		Total (number)	With 20 employees or more (number)	(number)	($1,000)
3589	----	Service industry machines, n.e.c.	506	142	15,257	192,379
	3584	Vacuum cleaners, industrial	506	142	15,257	192,379
	3589	Service industry machines, n.e.c.				
3599	3599	Miscellaneous machinery	12,090	1,402	135,820	1,366,327
3611	3611	Electric measuring instruments	560	209	44,715	505,309
3612	3612	Transformers	177	99	33,365	381,514
3613	3613	Switchgear and switchboards	400	214	54,045	647,838
3621	3621	Motors and generators	384	244	94,170	993,207
3622	3622	Industrial controls	339	108	32,990	450,507
3623	3623	Electric welding apparatus	149	75	9,629	162,411
3624	3624	Carbon and graphite products	53	40	10,123	141,423
3629	3629	Electric industrial goods, n.e.c.	231	109	14,041	141,633
3631	3631	Household cooking equipment	83	53	19,191	230,285
3632	3632	Household refrigerators	34	25	43,065	631,269
3633	3633	Household laundry equipment	39	28	18,343	353,863
3634	3634	Electric housewares and fans	312	136	38,801	463,845
3635	3635	Household vacuum cleaners	34	13	5,682	116,137
3636	3636	Sewing machines	86	17	7,646	98,328
3639	3639	Household appliances, n.e.c.	112	67	13,127	204,188
3641	3641	Electric lamps	81	50	23,404	362,235
3642	3642	Lighting fixtures	1,239	480	53,866	587,834
3643	3643	Current carrying devices	449	180	35,424	355,643
3644	3644	Noncurrent carrying devices	182	103	20,290	253,918
3651	3651	Radio and TV receiving sets	348	178	81,264	911,954
3652	3652	Phonograph records	167	60	9,554	125,388
3661	3661	Telephone; telegraph apparatus	90	56	89,465	1,013,792
3662	3662	Radio, TV communication equipment	1,132	635	387,384	4,327,671
3671	3671	Electron tubes, receiving type	42	22	25,850	250,681
3672	3672	Cathode ray picture tubes	151	28	10,916	128,354
3673	3673	Electron tubes, transmitting	57	45	18,704	204,614
3674	----	Semiconductors	107	87	56,349	467,035
	3679*	Electronic components, n.e.c.	107	87	56,349	467,035
3679	----	Electronic components, n.e.c.	1,934	968	176,708	1,457,433
	3679*	Electronic components, n.e.c.	1,934	968	176,708	1,457,433
3691	3691	Storage batteries	252	120	17,512	244,152
3692	3692	Primary batteries, dry and wet	46	29	8,478	113,787
3693	3693	X-ray apparatus and tubes	58	30	6,236	86,534
3694	3694	Engine electrical equipment	182	98	40,559	496,662
3699	3699	Electrical products, n.e.c.	350	106	10,923	101,221
3713	3713	Truck and bus bodies	610	208	24,466	229,472
3715	3715	Truck trailers	197	105	19,429	205,475
3717	3717	Motor vehicles and parts	1,958	909	649,926	12,345,630
3721	3721	Aircraft	100	65	302,201	3,542,695
3722	3722	Aircraft engines and parts	232	172	190,834	2,244,317
3723	3723	Aircraft propellers and parts	14	8	11,183	113,433
3729	3729	Aircraft equipment, n.e.c.	1,000	470	175,167	1,966,904
3731	3731	Ship building and repairing	334	200	114,649	1,009,690
3732	3732	Boat building and repairing	1,626	268	24,861	183,059
3741	3741	Locomotives and parts	24	12	14,337	186,241
3742	3742	Railroad and street cars	78	58	30,742	355,230
3751	3751	Motorcycles, bicycles, and parts	88	33	9,662	82,245
3791	3791	Trailer coaches	413	252	25,669	232,460
3799	3799	Transportation equipment, n.e.c.	522	108	8,032	68,823
3811	3811	Scientific instruments	594	213	33,084	358,588
3821	3821	Mechanical measuring devices	670	258	62,353	732,529
3822	3822	Automatic temperature controls	104	54	31,685	379,091
3831	3831	Optical instruments and lenses	280	79	11,924	131,917
3841	3841	Surgical and medical instruments	294	117	15,145	168,556

*Represents part of the specified industry. (NA) Not available.

Part 1. Derivation of 1963 SIC Industries from 1958 SIC Industries--Continued

Industry code		Industry title	Establishments		All employees	Value added by manufacture
1963 SIC	1958 SIC		Total (number)	With 20 employees or more (number)	(number)	($1,000)
3842	3842	Surgical appliances and supplies	704	162	28,267	370,273
3843	3843	Dental equipment and supplies	316	66	8,008	95,876
3851	3851	Ophthalmic goods	229	109	20,296	177,898
3861	3861	Photographic equipment	538	187	64,937	1,270,132
3871	3871	Watches and clocks	167	76	27,047	288,053
3872	3872	Watchcases	53	22	2,706	19,218
3911	3911	Jewelry, precious metal	1,438	218	23,551	234,925
3912	3912	Jewelers' findings and materials	228	67	4,816	33,958
3913	3913	Lapidary work	318	15	1,535	16,129
3914	3914	Silverware and plated ware	209	87	13,249	130,735
3931	3931	Musical instruments and parts	320	126	20,095	179,035
3941	3941	Games and toys	797	351	51,835	444,101
3942	3942	Dolls	410	160	16,213	138,100
3943	3943	Children's vehicles	64	31	4,542	35,304
3949	3949	Sporting and athletic goods	1,419	345	40,543	360,980
3951	3951	Pens and mechanical pencils	139	67	11,562	119,069
3952	3952	Lead pencils and art goods	144	57	6,868	64,731
3953	3953	Marking devices	616	90	7,625	85,572
3955	3955	Carbon paper and inked ribbons	102	52	5,539	68,353
3961	3961	Costume jewelry	912	204	21,655	150,999
3962	3962	Artificial flowers	384	70	4,958	29,194
3963	3963	Buttons	290	69	5,599	43,751
3964	3964	Needles, pins, and fasteners	343	149	20,271	190,868
3981	3981	Brooms and brushes	643	167	16,637	167,866
3982	3982	Hard surface floor coverings	16	13	6,192	118,832
3983	3983	Matches	26	23	4,647	38,666
3984	3984	Candles	111	32	3,167	26,306
3987	3987	Lamp shades	228	48	3,583	20,476
3988	3988	Morticians' goods	617	224	17,283	158,422
3992	3992	Furs, dressed and dyed	132	26	2,577	30,240
3993	3993	Signs and advertising displays	3,206	570	43,476	407,478
3995	3995	Umbrellas, parasols, and canes	112	35	2,604	16,101
3999	3999	Miscellaneous products, n.e.c	1,499	322	30,138	252,170
1911	1911	Guns, howitzers, and mortars	60	37	24,988	235,211
1999	1999	Ordnance and accessories, n.e.c				
1925	1925	Complete guided missiles	31	29	148,908	1,924,812
1929	----	Ammunition, n.e.c	44	34	32,578	285,774
	1921	Artillery ammunition				
	1922	Ammunition loading	44	34	32,578	285,774
	1929	Ammunition, n.e.c				
1931	1931	Tanks and tank components	26	19	11,307	148,369
1941	1941	Sighting and fire control equipment	13	8	9,249	96,281
1951	1951	Small arms, 30mm and under	52	23	9,995	88,302
1961	1961	Small arms ammunition	31	13	8,909	103,772

*Represents part of the specified industry. (NA) Not available.

Composition of Industries in the 1963 SIC--Continued

Part 2. Distribution of 1958 SIC Industries Among 1963 SIC Industries

Industry code		Industry title	Establishments		All employees	Value added by manufacture
1958 SIC	1963 SIC		Total (number)	With 20 employees or more (number)	(number)	($1,000)
2011	2011	Meat slaughtering plants	2,992	976	180,873	1,908,309
2013	2013	Meat processing plants	1,341	483	48,599	563,362
2015	2015	Poultry dressing plants	967	559	70,104	410,909
2021	2021	Creamery butter	766	178	11,992	132,665
2022	----	Natural cheese	(NA)	(NA)	(NA)	(NA)
	2022*	Natural and process cheese	(NA)	(NA)	(NA)	(NA)
2023	2023	Condensed and evaporated milk	281	166	12,255	236,250
2024	2024	Ice cream and frozen desserts	1,081	387	29,143	433,006
2025	----	Special dairy products	(NA)	(NA)	(NA)	(NA)
	2022*	Natural and process cheese	(NA)	(NA)	(NA)	(NA)
2026	2026	Fluid milk	4,619	1,948	185,050	2,203,196
2031	2031	Canned and cured seafoods	405	196	17,271	174,634
2032	2032	Canned specialties	173	77	25,156	540,835
2033	2033	Canned fruits and vegetables	1,430	836	102,388	1,029,467
2034	2034	Dehydrated foods products	176	80	9,152	115,795
2035	2035	Pickles, sauces, salad dressings	588	184	19,041	249,397
2036	2036	Fresh or frozen packaged fish	547	255	20,066	118,451
2037	2037	Frozen fruits and vegetables	650	346	51,750	550,231
2041	2041	Flour mills	618	218	22,405	373,090
2042	2042	Prepared animal feeds	2,590	711	54,649	983,691
2043	2043	Cereal preparations	48	30	11,358	365,022
2044	2044	Rice milling	74	49	4,256	80,507
2045	2045	Blended and prepared flour	165	60	7,199	177,826
2046	2046	Wet corn milling	60	20	13,236	290,918
2051	2051	Bread and related products	5,010	1,904	236,984	2,403,782
2052	2052	Biscuit, crackers, and cookies	356	208	43,160	627,040
2061	2061	Raw cane sugar	74	73	8,263	135,686
2062	2062	Cane sugar refining	25	25	12,443	254,418
2063	2063	Beet sugar	65	62	11,297	200,698
2071	2071	Confectionery products	1,211	411	63,643	635,393
2072	2072	Chocolate and cocoa products	28	23	8,743	184,796
2073	2073	Chewing gum	24	17	5,558	135,848
2082	2082	Malt liquors	222	180	62,643	1,286,036
2083	2083	Malt	42	31	1,925	43,979
2084	2084	Wines and brandy	222	70	6,111	137,281
2085	2085	Distilled liquor except brandy	107	89	18,009	623,736
2086	2086	Bottled and canned soft drinks	3,905	1,530	106,850	1,233,629
2087	2087	Flavorings	520	97	9,083	400,173
2091	2091	Cottonseed oil mills	188	153	8,372	100,815
2092	2092	Soybean oil mills	102	71	6,478	152,143
2093	2093	Vegetable oil mills, n.e.c	47	22	1,952	42,692
2094	----	Grease and tallow	(NA)	(NA)	(NA)	(NA)
	2094*	Animal and marine fats and oils	(NA)	(NA)	(NA)	(NA)
2095	----	Animal oils, n.e.c	(NA)	(NA)	(NA)	(NA)
	2094*	Animal and marine fats and oils	(NA)	(NA)	(NA)	(NA)
2096	2096	Shortening and cooking oils	115	86	13,511	264,501
2097	2097	Manufactured ice	1,199	135	10,757	90,204
2098	2098	Macaroni and spaghetti	221	70	7,270	96,012
2099	----	Food preparations, n.e.c	2,514	680	71,402	1,466,017
	2095	Roasted coffee	324	133	17,125	616,407
	2099	Food preparations, n.e.c	2,190	547	54,277	849,610
2111	2111	Cigarettes	14	14	35,568	1,310,325
2121	2121	Cigars	193	82	20,731	192,998
2131	2131	Chewing and smoking tobacco	51	25	4,058	73,975
2141	2141	Tobacco stemming and redrying	136	110	16,973	103,296

*Represents part of the specified industry. (NA) Not available.

Part 2. Distribution of 1958 SIC Industries Among 1963 SIC Industries--Continued

Industry code		Industry title	Establishments		All employees	Value added by manufacture
1958 SIC	1963 SIC		Total (number)	With 20 employees or more (number)	(number)	($1,000)
2211	2211	Weaving mills, cotton	407	350	208,993	1,256,753
2221	2221	Weaving mills, synthetics	355	300	88,157	661,535
2231	2231	Weaving, finishing mills, wool	361	249	47,429	386,622
2241	2241	Narrow fabric mills	384	215	23,154	172,493
2251	2251	Women's hosiery, except socks	939	606	94,867	488,511
2252	2252	Hosiery, n.e.c				
2253	2253	Knit outerwear mills	1,185	666	68,570	463,585
2254	2254	Knit underwear mills	118	104	28,364	170,709
2256	2256	Knit fabric mills	518	243	25,046	252,908
2259	2259	Knitting mills, n.e.c	88	45	3,639	20,309
2261	2261	Finishing plants, cotton	238	140	42,055	332,290
2262	2262	Finishing plants, synthetic	205	138	19,528	176,819
2269	2269	Finishing plants, n.e.c	178	85	9,236	73,159
2271	2271	Woven carpets and rugs	64	31	13,357	120,004
2272	2272	Tufted carpets and rugs	181	121	19,854	259,343
2279	2279	Carpets and rugs, n.e.c	104	35	2,445	15,595
2281	2281	Yarn mills, except wool	317	284	61,647	363,177
2282	2282	Throwing and winding mills	180	110	13,559	93,649
2283	2283	Wool yarn mills	144	121	17,385	119,718
2284	2284	Thread mills	71	36	10,056	75,821
2291	2291	Felt goods, n.e.c	36	30	4,952	58,625
2292	2292	Lace goods	152	51	4,912	31,472
2293	2293	Padding and upholstery filling	183	73	6,932	65,588
2294	2294	Processed textile waste	141	59	4,240	30,961
2295	2295	Coated fabric, not rubberized	161	86	13,475	177,307
2296	2296	Tire cord and fabric	20	19	9,163	72,267
2297	2297	Scouring and combing plants	69	38	5,798	45,402
2298	2298	Cordage and twine	167	76	8,920	57,614
2299	2299	Textile goods, n.e.c	137	56	7,283	78,746
2311	2311	Men's and boys' suits and coats	1,112	635	122,679	831,910
2321	2321	Men's dress shirts and nightwear	834	566	113,193	601,620
2322	2322	Men's and boys' underwear	80	63	12,084	63,186
2323	2323	Men's and boys' neckwear	341	117	8,385	58,136
2327	2327	Separate trousers	735	423	73,848	383,134
2328	2328	Work clothing	439	353	62,477	330,653
2329	2329	Men's and boys' clothing, n.e.c	554	365	35,917	183,224
2331	2331	Women's and misses' blouses	1,175	718	57,595	300,525
2335	2335	Women's and misses' dresses	4,752	3,013	200,003	1,180,883
2337	2337	Women's suits, coats, and skirts	2,516	1,380	88,332	637,869
2339	2339	Women's outerwear, n.e.c	1,297	709	59,536	340,462
2341	2341	Women's and children's underwear	1,069	628	76,723	430,771
2342	2342	Corsets and allied garments	351	234	37,144	310,150
2351	2351	Millinery	711	221	14,183	93,168
2352	2352	Hats and caps	436	173	16,608	91,277
2361	2361	Children's dresses and blouses	667	412	35,792	205,623
2363	2363	Children's coats and suits	285	152	11,848	72,735
2369	2369	Children's outerwear, n.e.c	624	360	34,244	188,344
2371	2371	Fur goods	1,591	94	9,289	110,619
2381	2381	Fabric dress and work gloves	197	103	12,771	64,372
2384	2384	Robes and dressing gowns	271	144	11,889	68,717
2385	2385	Waterproof outer garments	341	196	16,148	111,342
2386	2386	Leather and sheeplined clothing	114	50	3,352	23,351
2387	2387	Apparel belts	389	141	9,841	62,172
2389	2389	Apparel, n.e.c	270	108	7,225	43,211
2391	2391	Curtains and draperies	1,121	255	21,955	131,995
2392	2392	Housefurnishings, n.e.c	1,239	422	39,690	285,759
2393	2393	Textile bags	192	88	7,191	56,523
2394	2394	Canvas products	881	124	11,170	73,534
2395	2395	Pleating and stitching	1,316	245	16,353	95,240
2396	2396	Apparel findings	756	213	24,539	227,810
2397	2397	Schiffli machine embroideries	759	68	6,145	55,411
2399	2399	Textile products, n.e.c	1,044	240	21,350	145,153

*Represents part of the specified industry. (NA) Not available.

Composition of Industries in the 1963 SIC--Continued

Part 2. Distribution of 1958 SIC Industries Among 1963 SIC Industries--Continued

Industry code		Industry title	Establishments		All employees	Value added by manufacture
1958 SIC	1963 SIC		Total (number)	With 20 employees or more (number)	(number)	($1,000)
2411	2411	Logging camps and contractors	13,588	557	73,130	520,457
2421	2421	Sawmills and planing mills	12,189	2,151	207,365	1,376,080
2426	2426	Hardwood dimension and flooring	642	317	28,128	155,083
2429	2429	Special products sawmills, n.e.c.	541	107	7,164	41,355
2431	2431	Millwork plants	3,770	748	65,283	524,041
2432	2432	Veneer and plywood plants	641	503	66,155	559,211
2433	2433	Prefabricated wood products	559	203	15,806	156,593
2441	2441	Nailed wooden boxes and shook	663	183	14,483	85,046
2442	2442	Wirebound boxes and crates	117	70	9,893	55,606
2443	2443	Veneer and plywood containers	99	44	3,953	16,086
2445	2445	Cooperage	107	23	2,616	17,494
2491	2491	Wood preserving	338	157	11,178	93,265
2499	----	Wood products, n.e.c.	(NA)	(NA)	(NA)	(NA)
	2499*	Wood products, n.e.c.	(NA)	(NA)	(NA)	(NA)
2511	2511	Wood furniture, not upholstered	3,063	992	140,982	993,200
2512	2512	Wood furniture, upholstered	1,785	713	67,850	506,727
2514	2514	Metal household furniture	517	244	29,346	247,003
2515	2515	Mattresses and bedsprings	1,120	340	30,061	285,510
2519	2519	Household furniture, n.e.c.	75	30	2,054	15,054
2521	2521	Wood office furniture	138	58	6,516	57,018
2522	2522	Metal office furniture	170	107	19,928	228,329
2531	2531	Public building furniture	430	165	17,317	147,253
2541	2541	Wood partitions and fixtures	1,594	347	24,343	219,194
2542	2542	Metal partitions and fixtures	513	167	20,290	214,301
2591	2591	Venetian blinds and shades	717	59	10,102	88,905
2599	2599	Furniture and fixtures, n.e.c.	356	91	7,540	65,871
2611	2611	Pulp mills	45	40	15,123	295,804
2621	2621	Paper mills, except building	325	313	129,848	1,857,203
2631	2631	Paperboard mills	271	259	63,398	1,186,224
2641	2641	Paper coating and glazing	387	181	31,983	457,367
2642	2642	Envelopes	230	173	20,728	188,963
2643	2643	Bags, except textile bags	586	297	42,343	369,685
2644	2644	Wallpaper	79	31	2,194	20,907
2645	2645	Die cut paper and board	425	156	15,135	183,185
2646	2646	Pressed and molded pulp goods	59	42	5,720	70,006
2649	----	Paper and board products, n.e.c.	729	316	48,622	672,257
	2647	Sanitary paper products	119	77	19,108	369,711
	2649	Converted paper products, n.e.c.	610	239	29,514	302,546
2651	2651	Folding paperboard boxes	636	418	51,291	476,866
2652	2652	Set-up paperboard boxes	503	317	20,459	131,688
2653	2653	Corrugated shipping containers	923	651	83,229	804,012
2654	2654	Sanitary food containers	186	144	32,879	402,211
2655	2655	Fiber cans, tubes, drums, etc.	246	137	13,188	126,196
2661	----	Building paper and board mills	(NA)	(NA)	(NA)	(NA)
	2661	Building paper and board mills	(NA)	(NA)	(NA)	(NA)
	2499*	Wood products, n.e.c.				
2711	2711	Newspapers	8,331	1,865	306,439	3,201,872
2721	2721	Periodicals	2,630	402	67,730	1,349,030
2731	2731	Books, publishing and printing	993	256	46,812	995,736
2732	2732	Book printing	683	275	36,101	358,294
2741	2741	Miscellaneous publishing	1,374	177	22,551	252,932
2751	2751	Printing, except lithographic	12,109	1,404	170,215	1,578,275
2752	2752	Printing, lithographic	6,822	1,339	121,072	1,302,046
2753	2753	Engraving and plate printing	580	105	9,022	80,748
2761	2761	Manifold business forms	502	250	28,796	377,710
2771	2771	Greeting card manufacturing	257	93	21,535	204,608

*Represents part of the specified industry. (NA) Not available.

Part 2. Distribution of 1958 SIC Industries Among 1963 SIC Industries--Continued

Industry code		Industry title	Establishments		All employees	Value added by manufacture
1958 SIC	1963 SIC		Total (number)	With 20 employees or more (number)	(number)	($1,000)
2782	2782	Blankbooks; looseleaf binders	410	158	17,899	168,465
2789	2789	Bookbinding and related work	1,043	311	24,338	172,298
2791	2791	Typesetting	1,289	282	20,997	205,450
2793	2793	Photoengraving	883	218	14,620	171,796
2794	2794	Electrotyping and stereotyping	184	80	5,116	57,173
2812	2812	Alkalies and chlorine	38	37	19,652	389,243
2813	2813	Industrial gases	456	146	9,809	260,182
2814	2814	Cyclic (coal tar) crudes	36	17	1,636	35,103
2815	2815	Intermediate coal tar products	141	84	26,089	570,234
2816	2816	Inorganic pigments	96	49	11,544	286,407
2818	2818	Organic chemicals, n.e.c.	464	241	85,492	2,727,450
2819	2819	Inorganic chemicals, n.e.c.	674	323	82,430	1,902,563
2821	2821	Plastics materials and resins	509	256	61,366	1,202,349
2822	2822	Synthetic rubber	24	24	11,840	329,520
2823	2823	Cellulosic man-made fibers	19	19	30,086	411,529
2824	2824	Organic fibers, noncellulosic	25	24	41,421	922,001
2831	2831	Biological products	113	40	5,789	60,377
2833	2833	Medicinals and botanicals	138	42	8,128	151,297
2834	2834	Pharmaceutical preparations	1,011	319	85,084	2,595,657
2841	2841	Soap and other detergents	704	172	30,794	1,137,425
2842	2842	Polishes and sanitation goods	1,101	173	16,332	420,440
2843	2843	Surface active agents	148	59	4,108	75,698
2844	2844	Toilet preparations	707	183	34,338	1,232,883
2851	----	Paints and varnishes	(NA)	(NA)	(NA)	(NA)
	2851*	Paints and allied products	(NA)	(NA)	(NA)	(NA)
2852	----	Putty and caulking compounds	(NA)	(NA)	(NA)	(NA)
	2851*	Paints and allied products	(NA)	(NA)	(NA)	(NA)
2861	2861	Gum and wood chemicals	246	53	6,787	100,329
2871	2871	Fertilizers	281	199	19,992	287,800
2872	2872	Fertilizers, mixing only	733	232	13,752	164,140
2873	----	Agricultural pesticides	(NA)	(NA)	(NA)	(NA)
	2879*	Agricultural chemicals, n.e.c.	(NA)	(NA)	(NA)	(NA)
2879	----	Agricultural chemicals, n.e.c.	(NA)	(NA)	(NA)	(NA)
	2879*	Agricultural pesticides and other agricultural chemicals, n.e.c.	(NA)	(NA)	(NA)	(NA)
2891	2891	Glue and gelatin	368	104	8,521	147,006
2892	2892	Explosives	68	47	14,814	165,733
2893	2893	Printing ink	348	103	8,455	125,138
2894	----	Fatty acids	12	(NA)	1,711	36,473
	2899*	Chemical preparations, n.e.c.	12	(NA)	1,711	36,473
2895	2895	Carbon black	33	31	3,010	91,752
2899	----	Chemical preparations, n.e.c.	1,372	(NA)	24,077	469,395
	2899*	Chemical preparations, n.e.c.	1,372	(NA)	24,077	469,395
2911	2911	Petroleum refining	427	297	119,297	3,137,603
2951	2951	Paving mixtures and blocks	762	127	9,680	165,584
2952	2952	Asphalt felts and coatings	230	140	14,581	189,981
2992	2992	Lubricating oils and greases	353	108	8,433	199,074
2999	2999	Petroleum and coal products, n.e.c.	67	17	1,495	20,989
3011	3011	Tires and inner tubes	155	96	85,259	1,321,712
3021	3021	Rubber footwear	53	46	29,147	216,959
3031	3031	Reclaimed rubber	13	13	2,010	27,378
3069	3069	Rubber products, n.e.c.	1,173	620	132,228	1,427,022
3079	3079	Plastics products, n.e.c.	4,334	1,674	166,315	1,660,882
3111	3111	Leather tanning and finishing	525	256	31,417	273,092
3121	3121	Industrial leather belting	83	23	2,870	32,915
3131	3131	Footwear cut stock	446	204	14,339	90,611
3141	3141	Shoes, except rubber	1,040	815	201,728	1,214,740
3142	3142	House slippers	153	97	11,039	64,555

*Represents part of the specified industry. (NA) Not available.

Part 2. Distribution of 1958 SIC Industries Among 1963 SIC Industries--Continued

Industry code		Industry title	Establishments		All employees	Value added by manufacture
1958 SIC	1963 SIC		Total (number)	With 20 employees or more (number)	(number)	($1,000)
3151	3151	Leather gloves	166	87	7,718	32,194
3161	3161	Luggage	379	145	16,409	112,796
3171	3171	Handbags and purses	545	262	24,548	142,554
3172	3172	Small leather goods	340	117	12,432	82,385
3199	3199	Leather goods, n.e.c	370	67	4,989	32,730
3211	3211	Flat glass	31	30	22,815	364,466
3221	3221	Glass containers	113	105	59,987	629,608
3229	3229	Pressed and blown glass, n.e.c	107	95	37,999	472,212
3231	3231	Products of purchased glass	1,044	249	26,158	309,734
3241	3241	Cement, hydraulic	188	179	34,863	785,681
3251	3251	Brick and structural tile	512	400	28,620	216,548
3253	3253	Ceramic wall and floor tile	90	64	12,795	110,571
3255	3255	Clay refractories	150	109	11,431	118,248
3259	3259	Structural clay products, n.e.c	164	108	12,188	108,442
3261	3261	Vitreous plumbing fixtures	49	43	9,280	101,502
3262	3262	Vitreous china food utensils	31	21	6,314	42,504
3263	3263	Earthenware food utensils	21	18	7,349	41,046
3264	3264	Porcelain electrical supplies	79	49	10,170	90,001
3269	3269	Pottery products, n.e.c	458	98	9,085	62,107
3271	3271	Concrete block and brick	1,841	367	23,759	245,525
3272	3272	Other concrete products	3,451	716	52,297	539,967
3273	3273	Ready mixed concrete	4,621	1,021	71,523	981,997
3274	3274	Lime	125	68	6,778	95,135
3275	3275	Gypsum products	122	72	11,491	259,659
3281	3281	Cut stone and stone products	893	211	18,340	131,465
3291	3291	Abrasive products	378	149	28,170	416,415
3292	3292	Asbestos products	124	84	19,516	269,067
3293	3293	Gaskets and insulations	295	111	16,825	160,734
3295	3295	Minerals, ground or treated	415	97	7,330	102,079
3296	3296	Mineral wool	123	67	14,733	206,846
3297	3297	Nonclay refractories	93	68	8,572	129,139
3299	3299	Nonmetallic products, n.e.c	320	56	5,471	53,289
3312	3312	Blast furnaces and steel mills	288	247	500,550	7,506,433
3313	3313	Electrometallurgical products	36	30	10,437	145,503
3315	3315	Steel wire drawing, etc	200	133	21,280	253,009
3316	3316	Cold finishing of steel shapes	81	68	13,700	223,977
3317	3317	Steel pipe and tube	141	115	22,882	295,242
3321	3321	Gray iron foundries	1,139	767	120,528	1,168,478
3322	3322	Malleable iron foundries	81	71	22,297	204,557
3323	3323	Steel foundries	267	220	56,810	586,914
3331	3331	Primary copper	33	33	14,949	285,510
3332	3332	Primary lead	10	10	2,578	24,876
3333	3333	Primary zinc	18	18	8,065	98,789
3334	3334	Primary aluminum	23	22	18,133	499,576
3339	3339	Primary nonferrous metals, n.e.c	35	26	5,064	103,830
3341	3341	Secondary nonferrous metals	459	179	15,445	228,190
3351	3351	Copper rolling and drawing	112	92	38,949	478,393
3352	3352	Aluminum rolling and drawing	212	153	54,263	721,171
3356	3356	Rolling and drawing, n.e.c	125	67	17,375	250,589
3357	3357	Nonferrous wire drawing, etc	299	227	56,418	677,535
3361	3361	Aluminum castings	954	321	36,216	343,863
3362	3362	Brass, bronze, copper castings	549	193	15,341	144,092
3369	3369	Nonferrous castings, n.e.c	391	165	17,686	168,530
3391	3391	Iron and steel forgings	272	189	36,317	395,302
3392	3392	Nonferrous forgings	34	19	6,297	71,378
3399	3399	Primary metal industries, n.e.c	754	218	14,956	192,250
3411	3411	Metal cans	270	206	53,245	830,515
3421	3421	Cutlery	161	67	11,837	213,998
3423	3423	Hand and edge tools	716	255	31,480	364,265
3425	3425	Hand saws and saw blades	76	42	5,095	65,634

*Represents part of the specified industry. (NA) Not available.

Part 2. Distribution of 1958 SIC Industries Among 1963 SIC Industries--Continued

Industry code		Industry title	Establishments		All employees	Value added by manufacture
1958 SIC	1963 SIC		Total (number)	With 20 employees or more (number)	(number)	($1,000)
3429	3429	Hardware, n.e.c.	1,070	447	88,729	1,069,080
3431	3431	Metal plumbing fixtures	81	45	11,011	139,859
3432	3432	Plumbing fittings, brass goods	250	102	15,129	154,752
3433	3433	Heating equipment, except electric	648	280	42,020	495,652
3441	3441	Fabricated structural steel	1,718	817	85,423	814,805
3442	3442	Metal doors, sash, and trim	1,817	628	62,799	570,370
3443	3443	Boiler shop products	1,383	601	75,018	770,064
3444	3444	Sheet metal work	3,250	755	61,651	632,384
3449	----	Miscellaneous metal work, n.e.c.	2,031	419	40,579	432,190
	3446	Architectural metal work	1,334	173	15,587	148,763
	3449	Miscellaneous metal work	697	246	24,992	283,427
3451	3451	Screw machine products	1,874	516	36,909	358,961
3452	3452	Bolts, nuts, rivets and washers	573	323	57,618	695,276
3461	3461	Metal stampings	2,574	1,116	132,179	1,368,993
3471	3471	Plating and polishing	3,023	677	44,962	370,202
3479	3479	Metal coating, engraving, etc	1,258	276	20,669	184,546
3481	3481	Fabricated wire products, n.e.c.	1,567	557	55,514	539,137
3491	3491	Metal barrels, drums and pails	145	93	10,508	119,617
3492	3492	Safes and vaults	32	15	3,346	56,223
3493	3493	Steel springs	96	49	6,287	69,305
3494	3494	Valves and pipe fittings	646	374	80,407	942,700
3496	3496	Collapsible tubes	24	19	3,984	30,562
3497	3497	Metal foil and leaf	67	40	4,981	63,486
3498	3498	Fabricated pipe and fittings	349	146	13,007	144,598
3499	3499	Fabricated metal products, n.e.c.	1,277	346	28,302	299,326
3511	3511	Steam engines and turbines	22	21	30,917	379,875
3519	3519	Internal combustion engines	143	81	55,687	733,628
3522	3522	Farm machinery and equipment	1,568	558	112,614	1,328,381
3531	3531	Construction machinery	617	305	104,520	1,301,266
3532	3532	Mining machinery and equipment	204	93	16,910	215,406
3533	3533	Oil field machinery	408	176	29,203	398,152
3534	3534	Elevators and moving stairways	142	74	12,393	201,527
3535	3535	Conveyors	454	175	20,778	270,475
3536	3536	Hoists, cranes, and monorails	120	56	9,585	112,327
3537	3537	Industrial trucks and tractors	314	108	17,570	233,116
3541	3541	Metal-cutting machine tools	801	269	61,058	699,341
3542	3542	Metal-forming machine tools	366	146	22,078	281,287
3544	3544	Special dies and tools	5,896	1,133	90,360	1,029,338
3545	3545	Machine tool accessories	1,038	347	46,994	559,258
3548	3548	Metalworking machinery, n.e.c.	435	168	38,012	468,435
3551	3551	Food products machinery	681	279	31,684	380,406
3552	3552	Textile machinery	561	216	36,004	314,190
3553	3553	Woodworking machinery	249	91	12,057	146,998
3554	3554	Paper industries machinery	217	92	18,605	217,475
3555	3555	Printing trades machinery	490	136	22,952	285,879
3559	3559	Special industry machinery, n.e.c.	1,091	387	49,950	561,768
3561	3561	Pumps and compressors	642	267	61,322	768,787
3562	3562	Ball and roller bearings	125	93	52,316	627,694
3564	3564	Blowers and fans	237	97	15,244	180,801
3565	3565	Industrial patterns	1,209	106	9,914	112,587
3566	3566	Power transmission equipment	532	272	46,670	555,710
3567	3567	Industrial furnaces and ovens	239	94	12,394	153,477
3569	3569	General industry machines, n.e.c.	777	277	35,559	424,084
3571	3571	Computing and related machines	248	139	96,370	1,101,484
3572	3572	Typewriters	21	16	18,023	243,190
3576	3576	Scales and balances	85	35	5,765	64,362
3579	3579	Office machines, n.e.c.	161	75	16,980	224,654
3581	3581	Automatic vending machines	158	68	11,672	121,365
3582	3582	Commercial laundry equipment	115	58	6,542	70,771
3584	----	Vacuum cleaners, industrial	(NA)	(NA)	(NA)	(NA)
	3589*	Service industry machines, n.e.c.	(NA)	(NA)	(NA)	(NA)

*Represents part of the specified industry. (NA) Not available.

Part 2. Distribution of 1958 SIC Industries Among 1963 SIC Industries--Continued

Industry code		Industry title	Establishments		All employees	Value added by manufacture
1958 SIC	1963 SIC		Total (number)	With 20 employees or more (number)	(number)	($1,000)
3585	3585	Refrigeration machinery	698	347	72,330	892,686
3586	3586	Measuring and dispensing pumps	43	27	6,768	91,713
3589	----	Service industry machines, n.e.c.	(NA)	(NA)	(NA)	(NA)
	3589*	Service industry machines, n.e.c.	(NA)	(NA)	(NA)	(NA)
3599	3599	Miscellaneous machinery	12,090	1,402	135,820	1,336,327
3611	3611	Electric measuring instruments	560	209	44,715	505,309
3612	3612	Transformers	177	99	33,365	381,514
3613	3613	Switchgear and switchboards	400	214	54,045	647,838
3621	3621	Motors and generators	384	244	94,170	993,207
3622	3622	Industrial controls	339	108	32,990	450,507
3623	3623	Welding apparatus	149	75	9,629	162,411
3624	3624	Carbon and graphite products	53	40	10,123	141,423
3629	3629	Electric industrial goods, n.e.c.	231	109	14,041	141,633
3631	3631	Household cooking equipment	83	53	19,191	230,285
3632	3632	Household refrigerators	34	25	43,065	631,269
3633	3633	Household laundry equipment	39	28	18,343	353,863
3634	3634	Electric housewares and fans	312	136	38,801	463,845
3635	3635	Household vacuum cleaners	34	13	5,682	116,137
3636	3636	Sewing machines	86	17	7,646	98,328
3639	3639	Household appliances, n.e.c.	112	67	13,127	204,188
3641	3641	Electric lamps	81	50	23,404	362,235
3642	3642	Lighting fixtures	1,239	480	53,866	587,834
3643	3643	Current carrying devices	449	180	35,424	355,643
3644	3644	Noncurrent carrying devices	182	103	20,290	253,918
3651	3651	Radio and TV receiving sets	348	178	81,264	911,954
3652	3652	Phonograph records	167	60	9,554	125,388
3661	3661	Telephone; telegraph apparatus	90	56	89,465	1,013,792
3662	3662	Radio, TV communications equipment	1,132	635	387,384	4,327,671
3671	3671	Electron tubes, receiving type	42	22	25,850	250,681
3672	3672	Cathode ray picture tubes	151	28	10,916	128,354
3673	3673	Electron tubes, transmitting	57	45	18,704	204,614
3679	----	Electronic components, n.e.c.	2,041	1,055	233,057	1,924,468
	3674	Semiconductors	107	87	56,349	467,035
	3679	Electronic components, n.e.c.	1,934	968	176,708	1,457,433
3691	3691	Storage batteries	252	120	17,512	244,152
3692	3692	Primary batteries, dry and wet	46	29	8,478	113,787
3693	3693	X-ray apparatus and tubes	58	30	6,236	86,534
3694	3694	Engine electrical equipment	182	98	40,559	496,662
3699	3699	Electrical products, n.e.c.	350	106	10,923	101,221
3713	3713	Truck and bus bodies	610	208	24,466	229,472
3715	3715	Truck trailers	197	105	19,429	205,475
3717	3717	Motor vehicles and parts	1,958	909	649,926	12,345,630
3721	3721	Aircraft	100	65	302,201	3,542,695
3722	3722	Aircraft engines and parts	232	172	190,834	2,244,317
3723	3723	Aircraft propellers and parts	14	8	11,183	113,433
3729	3729	Aircraft equipment, n.e.c.	1,000	470	175,167	1,966,904
3731	3731	Ship building and repairing	334	200	114,649	1,009,690
3732	3732	Boat building and repairing	1,626	268	24,861	183,059
3741	3741	Locomotives and parts	24	12	14,337	186,241
3742	3742	Railroad and street cars	78	58	30,742	355,230
3751	3751	Motorcycles, bicycles, and parts	88	33	9,662	82,245
3791	3791	Trailer coaches	413	252	25,669	232,460
3799	3799	Transportation equipment, n.e.c.	522	108	8,032	68,823
3811	3811	Scientific instruments	594	213	33,084	358,588
3821	3821	Mechanical measuring devices	670	258	62,353	732,529
3822	3822	Automatic temperature controls	104	54	31,685	379,091
3831	3831	Optical instruments and lenses	280	79	11,924	131,917
3841	3841	Surgical and medical instruments	294	117	15,145	168,556
3842	3842	Surgical appliances and supplies	704	162	28,267	370,273

*Represents part of the specified industry. (NA) Not available.

Part 2. Distribution of 1958 SIC Industries Among 1963 SIC Industries--Continued

Industry code		Industry title	Establishments		All employees	Value added by manufacture
1958 SIC	1963 SIC		Total (number)	With 20 employees or more (number)	(number)	($1,000)
3843	3843	Dental equipment and supplies	316	66	8,008	95,876
3851	3851	Ophthalmic goods	229	109	20,296	177,898
3861	3861	Photographic equipment	538	187	64,937	1,270,132
3871	3871	Watches and clocks	167	76	27,047	288,053
3872	3872	Watchcases	53	22	2,706	19,218
3911	3911	Jewelry, precious metal	1,438	218	23,551	234,925
3912	3912	Jewelers' findings and materials	228	67	4,816	33,958
3913	3913	Lapidary work	318	15	1,535	16,129
3914	3914	Silverware and plated ware	209	87	13,249	130,735
3931	3931	Musical instruments and parts	320	126	20,095	179,035
3941	3941	Games and toys	797	351	51,835	444,101
3942	3942	Dolls	410	160	16,213	138,100
3943	3943	Childrens' vehicles	64	31	4,542	35,304
3949	3949	Sporting and athletic goods	1,419	345	40,543	360,980
3951	3951	Pens and mechanical pencils	139	67	11,562	119,069
3952	3952	Lead pencils and art goods	144	57	6,868	67,731
3953	3953	Marking devices	616	90	7,625	85,572
3955	3955	Carbon paper and inked ribbons	102	52	5,539	68,353
3961	3961	Costume jewelry	912	204	21,655	150,999
3962	3962	Artificial flowers	384	70	4,958	29,194
3963	3963	Buttons	290	69	5,599	43,751
3964	3964	Needles, pins, and fasteners	343	149	20,271	190,868
3981	3981	Brooms and brushes	643	167	16,637	167,866
3982	3982	Hard surface floor coverings	16	13	6,192	118,832
3983	3983	Matches	26	23	4,647	38,666
3984	3984	Candles	111	32	3,167	26,306
3987	3987	Lamp shades	228	48	3,583	20,476
3988	3988	Morticians' goods	617	224	17,283	158,422
3992	3992	Furs, dressed and dyed	132	26	2,577	30,240
3993	3993	Signs and advertising displays	3,206	570	43,476	407,478
3995	3995	Umbrellas, parasols, and canes	112	35	2,604	16,101
3999	3999	Miscellaneous products, n.e.c	1,499	322	30,138	252,170
1911	1911	Guns, howitzers, and mortars	60	37	24,988	235,211
1999	1999	Ordnance and accessories, n.e.c				
1921	----	Artillery ammunition	(NA)	(NA)	(NA)	(NA)
	1929*	Ammunition, n.e.c	(NA)	(NA)	(NA)	(NA)
1922	----	Ammunition loading	(NA)	(NA)	(NA)	(NA)
	1929*	Ammunition, n.e.c	(NA)	(NA)	(NA)	(NA)
1925	1925	Complete guided missiles	31	29	148,908	1,924,812
1929	----	Ammunition, n.e.c	(NA)	(NA)	(NA)	(NA)
	1929*	Ammunition, n.e.c	(NA)	(NA)	(NA)	(NA)
1931	1931	Tanks and tank components	26	19	11,307	148,369
1941	1941	Sighting and fire control equipment	13	8	9,249	96,281
1951	1951	Small arms, 30mm and under	52	23	9,995	88,302
1961	1961	Small arms ammunition	31	13	8,909	103,772

*Represents part of the specified inudstry. (NA) Not available.

Appendix D

CENSUS REPORT FORMS AND PUNCH CARDS

In the 1963 Census of Manufactures, approximately 180 standard length report forms were employed in collecting data from all "annual survey of manufactures" establishments and from all of the larger "non-annual survey" establishments. A typical report form, MC–35Q, sent to establishments primarily producing industrial furnaces and ovens, is reproduced on pages D–2 to D–13 of this appendix. Inquiry items 1 to 16 were identical on all forms. Differences among forms are reflected in items 17 and 18, requesting information, respectively, on materials consumed in manufacture and products and services of the establishment. These items were "tailored" to reporting by establishments primarily utilizing the selected materials shown and primarily producing the products or performing the manufacturing services listed. Items 19, 20, and 21 are similarly different among forms and were intended to secure information of special significance to the industries primarily covered on the report form. For annual survey establishments, the front sheet of the 1963 report form was the annual survey report form used for 1962 and 1963 with provisions for entering figures for 1963.

In addition to the standard length forms, 50 short or abbreviated forms were used for smaller establishments. A copy of one such short form, MC–36Z, covering electrical machinery, equipment and supplies, is reproduced on pages D–22 to D–24 of this appendix. The size cut-off for the use of these short forms varied by industry, in most instances below 6 and in the others below 10 employees. The abbreviated forms requested information on a few key items: Number of employees; payrolls; total cost of materials; and value of shipments by class of product. For those few industries in which small plants constituted a significant proportion of the total value of shipments, modified short forms were designed to collect some detail on the individual products shipped and less frequently on the types of materials used. The appendix also reproduces the general instructions for completing the standard length report forms. No instructions accompanied the short forms; all reporting instructions were contained on the form itself.

Copies of the basic punch cards utilized for tabulating the data reported on the 1963 Census of Manufactures forms are shown on page D–25. One card was used for punching data reported on the standard length form; the other for the short form.

For the 1963 Census of Manufactures, additional report forms were used to cover separately operated central administrative offices and auxiliary units, plants under construction but not operated in 1963, etc. Copies of these forms are not shown in this appendix but are described in the introductory text appearing at the beginning of this volume.

A copy of Form MC–D3, covering Department of Defense owned and operated establishments, primarily engaged in manufacture or in research and development, will be found on pages D–26 to D–29 of this appendix. Statistics developed from these forms will be found in the special report section of this volume.

On pages D–30 to D–31 is a copy of supplemental report form MA–175, Report on Shipments to or Receipts for Work Done for Federal Government Agencies and Their Contractors and Suppliers in 1963. Pages D–32 to D–33 contain a copy of supplemental form MA–161, Exports of Manufactured Products 1963. Data from both of these supplemental surveys are published in the special reports section of this volume.

D-2

PENALTIES FOR FAILURE TO REPORT — **DUE DATE—FEBRUARY 29, 1964** — Form Approved; Budget Bureau No. 41-6244

FORM MC-35Q
(3517)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1963 CENSUS OF MANUFACTURES

INDUSTRIAL FURNACES AND OVENS

CONFIDENTIAL—Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation or regulation. Copies retained in your files are also immune from legal process.

In correspondence pertaining to this report please refer to the 11-digit file number in the box above your name.

MC-35Q (3517)

PLEASE NOTE:

A. The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. Incomplete and inaccurate answers will result in correspondence which is both costly and time consuming. Be sure to **complete every item.** Enter "0" in Items 2–8 if appropriate.

B. If book records are not available, reasonably accurate estimates for most items are acceptable for the statistical purposes of this survey.

C. Please complete and return this form in the envelope provided to the **Jeffersonville Census Operations Office, Jeffersonville, Indiana.** If filing by due date causes an undue burden, a request for extension should be directed to that office.

D. SEE SUPPLEMENTAL INSTRUCTIONS ON PAGE 6.

E. PLEASE READ INSTRUCTIONS BEFORE COMPLETING REPORT.

(Please correct if mailing address has changed)

ITEM 1. GENERAL INFORMATION

A. NAME OF ESTABLISHMENT

B. PHYSICAL LOCATION OF ESTABLISHMENT on December 31, 1963. (Your answers to this item should relate to the ACTUAL PHYSICAL LOCATION of this establishment which may be different from the mailing address.)

(1) Street and number at establishment location*

**If establishment location cannot be described by street and number, give name (and number, if any) of road or highway and sufficient information to locate establishment, e.g., Rt. 25, 3 miles south of Charlesville.*

(2) Place (Check type of place and enter name)

Type (Check first applicable one)	Name of place
☐ City	
☐ Village or Borough	
☐ Town	
☐ Township	
☐ Other (Specify)	

(3) Is the establishment within the legal boundary of the place reported in (2) above? . . . . . ☐ Yes ☐ No

ITEM 2. NUMBER OF EMPLOYEES

Production Workers—Workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspecting, receiving, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plant's own use (e.g., powerplant), recordkeeping, and other closely associated services. Exclude proprietors and partners.

All Other Employees—Nonproduction personnel, including those engaged in the following activities: supervision above working foreman level, sales (including driver salesmen), sales delivery (truck drivers and helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, finance, legal, personnel (incl. cafeteria, etc.), professional and technical. Exclude proprietors and partners.

(See Supplemental Instructions on Page 6)

		1963	1963	Key
Number of production workers during pay period ended nearest 15th of—	a. March			0–1
	b. May			0–2
	c. August			0–3
	d. November			0–4
e. Sum of Lines a–d				0–5
f. AVERAGE NUMBER *(Divide sum on Line e by 4—omit fractions and decimals.)*				0–6
g. All other employees, March 15, 1963				0–7
h. **TOTAL NUMBER OF EMPLOYEES (Sum of Lines f and g)** →				0–8

IMPORTANT: Figures for dollars, man-hours and KWH (in Items 3–8) should be rounded to THOUSANDS. If you wish you may report to the nearest unit. In either case, **please be careful to enter your figures in the** CORRECT COLUMNS.

(See example at right)

EXAMPLE

If the payroll is $1,125,628.28:	Millions	Thousands	Dollars	Cents
	000	000	000	XX
Preferred method →	$ 1	126		XX
Acceptable method →	$ 1	125	628	XX

ITEM 3. PAYROLLS

Enter the total (before deductions) of wages, salaries, bonuses, commissions, and other remunerations paid in 1963 to "Production Workers," and "All Other Employees," as defined in Item 2 above. Exclude payments to proprietors and partners.

(See Supplemental Instructions on Page 6)

	Mil.	Thous.	Dollars	Cents	
					1
a. Production workers' wages	$			XX	1–1
b. All other employees' salaries and wages	$			XX	1–2
c. **TOTAL PAYROLL (Sum of Lines a and b)** →	$			XX	1–3

(4) County

(5) State

C. FORM OF OWNERSHIP AT END OF 1963

(Check one)

1 ☐ Individual proprietor
2 ☐ Partnership
0 ☐ Corporation (Do not include any form of cooperative association)
8 ☐ Cooperative association (corporate or non-corporate)
9 ☐ Other *(Specify)* _____

D. FEDERAL SOCIAL SECURITY IDENTIFICATION NUMBER

Enter identification number used for this establishment (as shown on Employer's Quarterly Federal Tax Return, Treasury Form 941).

E. COMPANY ORGANIZATION

	Yes	No
(1) Does this company operate more than one place of business under the same Identification Number shown in D above?	☐	☐
(2) Does this company own or control another company?	☐	☐
(3) Is this company owned or controlled by another company?	☐	☐

(If "Yes" is checked in Part (3), give name and address of owning or controlling company.)

FOR CENSUS USE ONLY

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

ITEM 4. PLANT MAN-HOURS OF PRODUCTION WORKERS BY QUARTER

Enter the total number of plant man-hours of production workers (as defined in Item 2 above) for each calendar quarter (or comparable 13-week period) of 1963. Do **not** include hours for paid vacations, holidays or sick leave.

	Mil.	Thous.	Hrs.	XX	
a. January through March 1963				XX	1-4
b. April through June 1963				XX	1-5
c. July through September 1963				XX	1-6
d. October through December 1963				XX	1-7
e. **TOTAL PRODUCTION WORKERS' MAN-HOURS (Sum of Lines a-d)** →				XX	1-8

ITEM 5. COST OF MATERIALS, FUELS, ELECTRICITY AND CONTRACT WORK

On Lines a and c, report the cost of all items **actually consumed or put into production in 1963,** whether purchased, withdrawn from inventories, or received from other establishments of this company. Purchase records instead of consumption records may be used if purchases closely approximate consumption. "Cost" refers to amounts actually paid or payable after discounts, and includes freight and other direct charges incurred in acquiring the items.

(See Supplemental Instructions on Page 6)

	Mil.	Thous.	Dol.	Cents	2
a. Cost of materials, parts, components, containers, supplies, etc., consumed	$			XX	2-1
b. Cost of goods sold without further manufacture, processing or assembly	$			XX	2-2
c. Cost of fuels consumed	$			XX	2-3
d. Cost of purchased electricity	$			XX	2-4
e. Cost of contract work done for you by others on your materials	$			XX	2-5
f. **TOTAL COST (Sum of Lines a-e)** →	$			XX	2-6

ITEM 6. INVENTORIES OF THIS ESTABLISHMENT

Report all inventories of this establishment at the beginning and end of 1963 on a comparable basis. The reported figures should be in terms of cost (if feasible, on a current cost basis).

Key 3	Type of inventory	Beginning of 1963 Millions	Thousands	Dollars	Cents	End of 1963 Millions	Thousands	Dollars	Cents	
3-1	a. Finished products	$			XX	$			XX	3-5
3-2	b. Work-in-process	$			XX	$			XX	3-6
3-3	c. Materials, supplies, fuels, etc.	$			XX	$			XX	3-7
3-4	d. **TOTAL (Sum of a, b, & c)** →	$			XX	$			XX	3-8

ITEM 7. CAPITAL EXPENDITURES (Exclude land)

Expenditures refer to all costs actually incurred **during 1963** which are chargeable to the fixed assets accounts and which are of the type for which depreciation accounts are ordinarily maintained. Do **not** include the cost of maintenance and repairs charged as current operating expense. If you did not make any expenditure of the kind described, enter "0" on Line d.

		4
a. New structures and additions to plant	$ XX	4-1
b. New machinery and new equipment	$ XX	4-2
c. Used plant and used equipment acquired from others	$ XX	4-3
d. **TOTAL CAPITAL EXPENDITURES (Sum of Lines a, b, and c)** →	$ XX	4-4 →

Please continue on Page 2

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FORM MC-35Q

ITEM 8 **QUANTITY OF ELECTRICITY DURING 1963**

		Kilowatt hours: Billions	Millions	Thousands	Units	Key
Include on Line a, all electricity purchased	**a.** Purchased electricity (For which cost is reported in Item 5d)					4–5
Include on Line b, all electricity generated in this establishment whether for use by this establishment or for sale	**b.** Generated electricity (Gross less generating station use)					4–6
Include on Line c, sales or transfers of electricity generated or purchased by this establishment	**c.** Electricity sold or transferred to other plants					4–7

ITEMS 9-11 Not applicable to this form.

ITEM 12 **CHANGES IN OWNERSHIP OR OPERATION OF ESTABLISHMENT**

Please check proper box and furnish information requested below for 1963.	1963 Yes	1963 No
a. Did the company have any manufacturing plants under construction but not yet in operation during 1963? If "Yes," describe in Remarks Section.		
b. Changes in ownership or operation of this establishment during 1963 (1) Purchased *(Enter date, name, and address of former owner in Remarks Section)*		
(2) Sold *(Enter date, name, and address of purchaser in Remarks Section)*		
(3) Discontinued operations: (a) Plant dismantled or destroyed		
(b) Inactive		
(4) Reorganized (Partnership change or change in corporate status)		
(5) Started new business in 1963 (No previous owner)		
(6) Remained the same as in the previous year		
(7) Other changes in ownership *(Describe in Remarks Section)*		

ITEM 13 **CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT (Please complete this item after you have answered all items on the report.)**

The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report:

a. Review the report carefully to see that no items are omitted for the year being covered.
b. Enter the results after calculating the four "reasonableness" checks (described below) and review the results.
c Correct your report for any errors you find; explain unusual figures in Remarks Section.

"Reasonableness" checks	Calculation required for each check (Use figures reported in "Millions and Thousands" columns)	Resulting figures for 1963
(1) Average hourly wages per production worker	Item 3a (Production workers' wages) ÷ Item 4e (Total man-hours)	$
(2) Hours worked per year per production worker	Item 4e (Total man-hours) × 1000 ÷ Item 2f (Average number of production workers)	Hrs.
(3) Salaries and wages per dollar of shipments	Item 3c (Total payroll) ÷ Item 18 (Total value of shipments)	¢
(4) Materials cost per dollar of shipments	Item 5f (Total materials cost) ÷ Item 18 (Total value of shipments)	¢

(5) Is the total for value of shipments (Item 18) greater than the sum for payroll (Item 3c) plus total cost of materials, etc. (Item 5f)? ..... ☐ Yes ☐ No *(If "No," please explain in Remarks Section)*

ITEM 14 **REMARKS PERTAINING TO THE REPORT**

ITEM 15 Not applicable to this form.

Please continue on Page 3

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FORM MC-35Q
(3517)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1963 CENSUS OF MANUFACTURES

INDUSTRIAL FURNACES AND OVENS—Continued

File No.

Page 3

Name of establishment (Same as address box)

4-8

ITEM 16 INDUSTRIAL WATER USE DURING 1963

a. The total quantity of water intake (fresh and brackish) in this establishment during the entire year 1963— *(Check one box only)*

1 ☐ Under 1 million gallons
2 ☐ 1 to 9 million gallons
3 ☐ 10 to 19 million gallons
4 ☐ 20 to 99 million gallons
5 ☐ 100 million gallons or over

b. Was your principal source of water (1) from a publicly- or privately-owned utility; or, (2) from other source? . . . 1 ☐ Utility 2 ☐ Other source

ITEM 17 CONSUMPTION OF SELECTED MATERIALS DURING 1963

REPORT SEPARATELY FOR EACH LISTED MATERIAL THAT WAS ACTUALLY CONSUMED OR PUT IN PRODUCTION DURING 1963

Section A—CONSUMPTION OF MATERIALS PURCHASED OR RECEIVED FROM OTHER ESTABLISHMENTS

INSTRUCTIONS

The sum (Line 17) of the costs of the listed items, including that for "All other materials, parts, containers, and supplies consumed," should be the same as Item 5a.

Detailed instructions regarding the valuation of materials transferred from other establishments of your company are included in the Instruction Manual.

If consumption records are unavailable. figures may be derived from purchase or receipt records. (See Instruction Manual)

For items produced in this establishment and consumed or incorporated in products made in this establishment, enter quantities in Section B of Item 17, Page 4.

NOTE: Cost figures preferably should be rounded to THOUSANDS OF DOLLARS. If you wish, you may report to the nearest dollar. **Please be careful to enter your figures in the** CORRECT COLUMNS. *(See example at right)*

If $5,000 or more of the listed item was consumed—

Column (C)—Quantity—Enter the quantity in the unit of measure specified in Column (B-2). Omit quantities if column is shaded.

Column (D)—Delivered Cost—Enter the amount paid or payable, including delivery cost (freight-in).

If some but less than $5,000 of the listed item was consumed—

Column (E)—Enter an "X" in the box opposite the listed item. (Include the cost of materials checked with "All other materials, components, etc." Line 16.)

EXAMPLE

If the material cost for Line 1 is $1,948,376:

	Delivered cost (D)			
	Millions	Thousands	Dollars	Cents
	000	000	000	XX
Preferred method →	$ 1	948		XX
Acceptable method →	$ 1	948	376	XX

Line number	Materials, parts and supplies (A)			7	7-1 Census material code (B-1)		Unit of measure for quantities (B-2)	7-2 Consumption of purchased materials and of materials received from other establishments of your company — If $5,000 or more of the listed item was consumed— Quantity (C)	7-3 Delivered cost (D) Millions 000	Thousands 000	Dollars 000	Cents XX	7-4 If you consumed some but less than $5,000 worth of the listed item— *(Enter an "X" in the box)* (E)
1	**MILL SHAPES AND FORMS (except castings)**	**Carbon steel**	Sheet and strip		**331012**	**5**	Short tons		$			XX	☐ 1
2			Plates		**331013**	**3**	Short tons		$			XX	☐ 1
3			Structural shapes		**331015**	**8**	Short tons		$			XX	☐ 1
4			All other carbon steel mill shapes and forms		**331019**	**0**	Short tons		$			XX	☐ 1
5		**Alloy steel (except stainless)**			**331020**	**8**	Short tons		$			XX	☐ 1
6		**Stainless steel**			**331031**	**5**	Short tons		$			XX	☐ 1
7		**Copper and copper-base alloy**	Bare wire (for electrical conduction only)		**335728**	**2**	Thousand pounds		$			XX	☐ 1
8			Insulated wire and cable (Report copper content in Column (C))		**335790**	**2**	Thousand pounds		$			XX	☐ 1
9			Rod, bar, and mechanical wire, including extruded and/or drawn shapes		**335102**	**0**	Thousand pounds		$			XX	☐ 1
10			Plate, sheet, and strip (including military cups and discs)		**335123**	**6**	Thousand pounds		$			XX	☐ 1
11			Pipe and tube		**335127**	**7**	Thousand pounds		$			XX	☐ 1
12		**Aluminum and aluminum-base alloy**	Sheet, plate and foil		**335202**	**8**	Thousand pounds		$			XX	☐ 1
13			Extruded shapes (including extruded rod, bar, pipe, tube, etc.)		**335205**	**1**	Thousand pounds		$			XX	☐ 1
14			All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)		**335209**	**3**	Thousand pounds		$			XX	☐ 1
15	**Steel castings (rough and semi-finished)**				**332300**	**3**	Short tons		$			XX	☐ 1

Please continue on Page 4

FORM MC-35Q

ITEM 17 **CONSUMPTION OF SELECTED MATERIALS DURING 1963—Continued** Page 4

Section A—CONSUMPTION OF MATERIALS PURCHASED OR RECEIVED FROM OTHER ESTABLISHMENTS—Continued

See example on Page 3 (instructions) for reporting values →

Line number	Materials, parts and supplies (A)	7	7-1 Census material code (B-1)		Unit of measure for quantities (B-2)	7-2 Consumption of purchased materials and of materials received from other establishments of your company: If $5,000 or more of the listed item was consumed— Quantity (C)	7-3 Delivered cost (D) Millions 000	Thousands 000	Dollars 000	Cents XX	7-4 If you consumed some but less than $5,000 worth of the listed item— (Enter an "X" in the box) (E)
16	All other materials and components, parts, containers, and supplies consumed. *(List the three principal "All other materials, etc.," included in the above.)*		970099	8			$			XX	
17	**TOTAL (Sum of Lines 1–16 should be same as Item 5a)**						$			XX	

Section B—CONSUMPTION OF CASTINGS PRODUCED IN THIS ESTABLISHMENT AND CONSUMED IN MANUFACTURING OTHER PRODUCTS MADE IN THIS ESTABLISHMENT

INSTRUCTIONS

Report below the quantity of each listed item produced in this establishment and consumed in manufacturing other products made in this establishment.

Purchases or receipts of the items specified below should be reported only in Section A above.

Materials used to produce the items specified below should be reported in Section A of Item 17 above.

Quantities produced for sale as such and not for incorporation in other products should be reported in Item 18 below.

Report quantities in the unit of measure specified in Column (B-2).

Item (A)	7	7-1XXX Census material code (B-1)		Unit of measure for quantities (B-2)	7-5 Quantities produced in this establishment and consumed in manufacturing other products made in this establishment (F)
Steel castings (rough and semifinished)		332300	3	Short tons	

ITEM 18 PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1963

PLEASE READ THE ENTIRE LIST OF PRODUCTS AND SERVICES BELOW BEFORE ANSWERING THIS INQUIRY

INSTRUCTIONS

Report on Lines 1–20 for all products made; and on Lines 21–26 for **services and other activities** performed at this establishment during 1963.

DO NOT COMBINE PRODUCT LINES. If any of your products are not included in the listed items, report these on Lines 17–20.

Products shipped and other receipts—Report the quantity and value of each product made and physically shipped during 1963 from this establishment, **including products shipped to other plants,** sales branches, retail stores, or warehouses of your company and on consignment. Deduct returned goods. Also report the value of services performed at this establishment.

Column (D)—Quantity—Report quantities in number of units. Omit quantities if column is shaded.

Column (E)—Value, f.o.b. plant—Report totals based on net selling values, f.o.b. plant. Net selling values should not include discounts, allowances, freight charges, and excise taxes.

Companies transferring products from this establishment to other manufacturing plants, sales branches, retail stores, or warehouses, should carefully study and follow instructions appearing in the Instruction Manual.

Installation (or construction of product)—See Supplemental Instructions on Page 6.

Report on Line 26 the selling value, f.o.b. plant, of products which were resold as originally purchased and not used in further manufacturing, processing, or assembling of products made in this establishment.

NOTE: Value figures preferably should be rounded to THOUSANDS OF DOLLARS. If you wish, you may report to the nearest dollar. **Please be careful to enter your figures in the** CORRECT COLUMNS. *(See example at right)*

EXAMPLE

If the value of products for Line 3 is $1,125,328.28:

	Value, f.o.b. plant (E)			
	Millions	Thousands	Dollars	Cents
	000	000	000	XX
Preferred method →	$ 1	125		XX
Acceptable method →	$ 1	125	328	XX

Line number	Products and services (A)			8	8-1X Census product code (B-1)		8-3 Products shipped and other receipts: Quantity (Number of units) (D)	8-4 Products shipped and other receipts: Value, f.o.b. plant (E) Millions	Thousands	Dollars	Cents
								000	000	000	XX
1	**ELECTRIC INDUSTRIAL FURNACES AND OVENS, METAL PROCESSING**	**Electric furnaces** (excluding induction)	Metal melting		**35671 11**	**45**		$			XX
2			Metal processing and heat treating (such as annealing, hardening, carburizing, and porcelain enameling furnaces)		**35671 21**	**35**		$			XX
3		**Electric,** including infrared, industrial ovens			**35671 43**	**75**		$			XX

Please continue on Page 5

FORM MC-35Q (3517)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1963 CENSUS OF MANUFACTURES

INDUSTRIAL FURNACES AND OVENS—Continued

File No.

Name of establishment (Same as address box)

ITEM 18 PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1963—Continued

See example on Page 4 (instructions) for reporting values

Line number		Products and services (A)	8	8-1X Census product code (B-1)		8-3 Products shipped and other receipts: Quantity (Number of units) (D)	8-4 Products shipped and other receipts: Value, f.o.b. plant (E) Millions 000	Thousands 000	Dollars 000	Cents XX
4	FUEL FIRED INDUSTRIAL FURNACES AND OVENS, METAL-PROCESSING	Metal melting, including blast furnaces and cupolas		35672 11	25		$			XX
5		Metal processing and heat treating (such as annealing, hardening, carburizing, and porcelain enameling furnaces)		35672 21	15		$			XX
6		Industrial ovens		35672 41	95		$			XX
7		Hot rolling, forging, forming, and extruding		35672 61	75		$			XX
8	INDUCTION AND DIELECTRIC HEATING EQUIPMENT AND PARTS, ATTACH-MENTS AND COMPONENTS	**Induction furnaces and heating equipment**								
		Radio frequency type, including spark gap		35673 13	65		$			XX
9		Line and motor-generator set frequency types		35673 15	15		$			XX
10		Dielectric heating equipment (corresponds to Code 3567331 on Census Annual Form MA36N, Selected Electronic and Associated Products for 1963)		35673 31	85		$			XX
		Other electrical equipment for industrial use, except soldering irons								
11		**Industrial electric heating units and devices** (except heating units for electric furnaces) Tubular heaters		35673 51	65		$			XX
12		All other industrial electric heating units and devices (include strip, space, and ring heaters; water and oil immersion heaters; glue and compound pots, etc.)		35673 59	95		$			XX

13		Parts, attachments, and components for industrial furnaces and ovens, including electric heating units (sold separately)	35673 91	25		$			XX
14	**Electric nonmetallic processing industrial furnaces and ovens, including kilns and lehrs**		35595 91	72		$			XX
15	**Fuel fired kilns** (cement, wood, and chemical processing)		35595 92	52		$			XX
16	**Other nonmetallic processing industrial furnaces and ovens, including kilns and lehrs**		35595 33	82		$			XX
17	**ALL OTHER PRODUCTS MADE IN THIS ESTAB-LISHMENT**	Describe and report separately for each product whose value was $50,000 or more and not listed above. *(Specify unit of measure for quantity.)* For all remaining products describe and report a single total value.				$			XX
18						$			XX
19						$			XX
20						$			XX
21	**CONTRACT WORK**	Receipts for work done for others on their own materials . . . . . *(Describe products worked on and kind of work)*	93000 00	85		$			XX
22	**MISCELLA-NEOUS RECEIPTS**	Sales of scrap and refuse	99980 13	86		$			XX
23		Receipts for repair work	99980 61	76		$			XX
24		Receipts for installation (or construction of products of this establishment) *(See instructions on Page 6 for reporting of installation costs in Items 2, 3, 5, and 18)*	99980 31	06		$			XX
25		Other miscellaneous receipts	99980 98	96		$			XX
26	**RESALES**	Sales of products **bought and resold without further manufacture, processing or assembly** in this establishment. (The cost of such items should be reported in Item 5b.)	99989 00	66		$			XX
27		**TOTAL** → **(Sum of figures on Lines 1–26, Column (E))**	77000 00	88	→	$			XX

Please complete form, including Item 13, and sign certification on Page 6

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FORM MC–35Q

ITEM 19 FACTORY AND FIELD ASSEMBLY OF INDUSTRIAL FURNACES AND OVENS

Report the 1963 value of shipments for field and factory assembly of industrial furnaces and ovens reported in Item 18, Column (E), Lines 1–16. *(See example on Page 4, Item 18 (Instructions), for reporting value of shipments in Column (C).)*

Line No.	Industrial furnaces and ovens (A)	9 9–1 Code (B)	9–2 Value of shipments (C) Millions	Thousands	Dollars	Cents
			000	000	000	XX
1	Field assembled	44	$			XX
2	Factory assembled	55	$			XX

ITEM 20 SELECTED METALWORKING AND RELATED OPERATIONS PERFORMED IN THIS ESTABLISHMENT DURING 1963

Section A— Were any of the specified metalworking operations listed below performed in this establishment in 1963? *(Check one box)*

9	Key	Yes	No
9–1	20	☐ 1	☐ 2
9–2			

Section B— If "Yes," indicate in Column (C) by checking appropriate boxes, which of the specified operations were performed in this establishment during 1963. A check should be entered either in the "Yes" box or "No" box for each operation. Where the "Yes" box is checked, show in Column (D) the approximate number of production workers on all shifts usually engaged in the specified operation.

Line number	Operation (A)	9 9–1 Census Code (B)	9–2 Was this operation performed in this establishment during 1963? (C) Yes	No	9–3 Number of production workers (on all shifts) usually employed when operated (estimate if necessary) (D)
1	Machine shop	09	☐ 1	☐	
2	Plate or structural fabrication	12	☐ 1	☐	
3	Stamping, blanking and forming of metals	13	☐ 1	☐	
4	Painting, lacquering and enameling on metals	14	☐ 1	☐	

ITEM 21

Not applicable to this form.

REMARKS			
PERIOD OF REPORT	This report covers the period from _____ to _____		
ITEM 22	Name of person to be contacted regarding this report	Address	Telephone No.
ITEM 23	**CERTIFICATION**—This report is substantially accurate and has been prepared in accordance with instructions.		
	Name of company	Address	
	Signature of authorized official	Title	Date

Supplemental Instructions

The following instructions supplement the "General Instructions to Manufacturers for Preparing Reports"

INSTALLATION (OR CONSTRUCTION) OF PRODUCTS OF YOUR OWN MANUFACTURE

(These instructions apply to companies engaged in installing or erecting their own manufactured products)

Where your product is installed or erected by a labor force separate from the regular force attached to your manufacturing establishment, do not include installation costs.—The separate labor force may consist either of a distinct group of your employees not attached to your manufacturing plant, or of local labor hired by you in the field, or a combination of both of these. This labor force should be omitted from the sections on employment and payrolls (Items 2 and 3); the value of the installation services should not be included in the section on products shipped (Item 18); and, the amounts reported for cost of materials, etc. (Item 5), should be restricted to factory operations. However, include in Items 2g and 3b engineering and supervisory personnel on your regular plant payroll who may be engaged in installing or testing your products. If your records do not provide exact figures to serve as the basis for segregating these installation costs, carefully prepared estimates will be acceptable.

When your product is installed or erected by the regular labor force of your manufacturing plant, operating out of the plant itself, installation costs and the value of installation services should be included.—In installations of this type the employees will not be a separate group of workers located away from the premises of the manufacturing plant. Include these workers engaged in installing your products in Items 2 and 3, "Employment and Payrolls 1963."

Receipts for installation services should be reported separately on Line 24, Item 18.

Do not include these receipts in the value of industrial furnaces and ovens as reported on Lines 1–16, Item 18.

If your records do not provide exact figures on the value of installation work, carefully prepared estimates will be acceptable.

In no case should installation costs (or the value of the service) be included in your report where the installing or erecting is performed by a separate company, whether the services of that company have been contracted for by your customer or by yourself.

Please state in the Remarks Section of this form whether you install or erect your manufactured products.—If you do such installing or erecting, you should further indicate whether or not the installation costs and value of such services are included in your report (using the above instructions as the basis for reporting.

★ U.S. GOVERNMENT PRINTING OFFICE : 1963 O—100147

U.S. DEPARTMENT OF COMMERCE

Bureau of the Census

1963 CENSUS OF MANUFACTURES

REPORTING INSTRUCTIONS

In all correspondence with the Census Bureau, please include the 11-digit file number which appears in the address box of the report form. High-speed electronic equipment will be used to identify both the correspondence and the reports in the 1963 Economic Censuses. If your correspondence does not include the Census file number, it will be returned for the addition of that number. Address all correspondence to JEFFERSONVILLE CENSUS OPERATIONS OFFICE, 1208 East 10th Street, Jeffersonville, Indiana.

Please do not mark or mar the two lines of symbols above the address on each form. These symbols or rectangles which are unique to each establishment will be photographed and used to record mechanically the receipt of your report form.

As you complete the reports for each establishment, please enter the 11-digit file number at the top of the odd numbered pages as requested.

This booklet is provided to assist you in filling out the enclosed Census of Manufactures form(s) MC19A through MC39L. Please read these instructions and those appearing on the individual report forms for each item before entering your figures.

A. Who Should Report?

The Census of Manufactures reports are required by an Act of Congress (13 U.S.C.). The reports submitted are confidential and may be seen only by sworn Census employees. They may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.

Every concern is required to submit a separate Census report for each of its manufacturing establishments in the United States, the Virgin Islands, and Guam. Enterprises with more than one establishment must submit a separate report for each establishment operated during all or any part of 1963. Reports should be returned to the Jeffersonville Census Operations Office as shown on the enclosed envelope.

Based on Census Bureau records, a report form is provided for each establishment which your company operated in 1963. If you have not received sufficient forms to cover all the manufacturing establishments operated by your company, write for additional copies. Be sure to describe the type of activity carried on at the establishments for which you request additional forms.

1. What Is a Manufacturing Establishment?

For purposes of the Census, a manufacturing establishment is defined as a single physical location where manufacturing operations are performed; for example, a factory, mill, or plant. Since the information reported will be summarized to totals for each industry, State, county and standard metropolitan statistical area, separate reports are required for different physical locations even though the establishments may be engaged in the same line of manufacturing.

If your company operates two or more units in distinctly different lines of manufacturing at the same location, you should also file a separate establishment report for each unit, provided separate records are maintained or substantially accurate reports for these separate activities can be prepared. It is not necessary to file separate reports for departments or organizational subdivisions within an establishment.

In completing your reports, a limited amount of prorating or estimating is acceptable when book records are not readily available.

2. How To Report for Establishments not in Operation During 1963?

If any of your company's manufacturing establishments were not in operation at all during 1963, you should nevertheless return the report for each such establishment with a notation as to its status in Item 12 "Changes in ownership or operation of the establishment." If a manufacturing location was not in production, but had custodial employees, maintained inventories, or made shipments during the year, the information should be reported in the appropriate section of the report form.

B. What Activities Should Be Reported?

Each report should cover all the activities (manufacturing, fabricating, processing, and assembling) conducted within the establishment. The reported figures should also include activities such as the maintenance of plant and equipment, receiving, shipping, warehousing, storage, research, record keeping, health, safety, cafeteria, and other services, when carried on at the same physical location by the manufacturing establishment. The manufacturing establishment reports should exclude sales branches, sales offices, research laboratories, retail stores, mining activities, and general administrative offices, if they are operated as separate establishments. However, separate Census of Business, Census of Mineral Industries, or Central office or auxiliary reports should be submitted for each of these establishments.

Please note that establishments engaged in the activities listed below are considered to be manufacturing for the purposes of this Census:

Apparel jobbing and contracting
Assembling from purchased components
Commission processing of materials owned by others
Job casting, stamping, machinery
Lapidary work
Logging camps and logging
Machine shops, including those operating on a job order basis
Manufacturing and delivering ready-mixed concrete
Milk pasteurizing and bottling
Plating, galvanizing, polishing materials owned by others etc.
Poultry dressing
Printing
Publishing: Book, magazine, periodical, etc.
Rebuilding on a factory basis
Sawmills
Seafood, fresh packaged or frozen
Ship and boat repairing
Wood preserving

C. What Period Should Each Report Cover?

Each report should cover the calendar year 1963. If your book records are not on a calendar year basis, carefully prepared estimates will be acceptable. If reporting on a calendar year basis will involve considerable additional costs, and your fiscal year covers at least 10 months of calendar year 1963 (i.e., ends between October 31, 1963 and February 29, 1964), you may report on a fiscal basis. However, all employment, payroll, and man-hour figures should relate to the calendar year rather than the fiscal year. (These calendar year payroll records should be available from your tax records.)

In the certification, the dates should show the exact period which the report covers. Thus, if an establishment began to operate or ceased to operate within the year, the dates should span only that part of the year during which the plant was in operation. If the ownership changed during the year, complete the report only for that part of 1963 in which your company owned and operated the establishment. Report in Item 12 the appropriate information on changes in ownership or operations.

D. How Should Multiple Establishment Companies Determine Transfer Values of Products and Materials from One Establishment to Another ("Interplant Transfers")?

One of the important statistical measures of manufacturing activity is "value added by manufacture," which is derived by the Census Bureau from the figures reported for value of shipments, cost of materials and inventories.

In order for statistics on value added and other subjects to be comparable from industry to industry or area to area, it is necessary that the operations of each establishment of a multiple establishment organization be reported as though the establishment were a separate "economic" unit. This means that the value of interplant transfers within a company should include, in addition to direct costs of production, a reasonable proportion of "all other costs (company overhead) and profits." The establishments receiving such transfers should report them as materials consumed (or inventories of materials, etc.) at the same value plus costs of freight and other direct handling charges. (See Item 5.)

ITEMS ON THE REPORT FORM

Item 1. (See instructions on Form.)

Item 2. Number of employees.—(You may follow the definition of employees specified by your State Employment Security Agency.)—Report employees at the establishment who worked or received pay for any part of the pay period (preferably one week) ending nearest the 15th of the specified months (i.e., March, May, August, and November of 1963 for "production workers" and March only for "all other employees"). Include all persons on paid sick leave, paid holidays, and paid vacation during these pay periods; exclude members of armed forces and pensioners carried on your active rolls. Include officers at this establishment, if a corporation; if an unincorporated concern, exclude proprietor or partners.

Items 2e and 2f.—Divide the total on Line 2e by FOUR and enter the result on Line 2f; divide by FOUR even if the establishment did not operate in all four periods.

Item 3. Payrolls. (You should follow the definition of salaries and wages that is used for calculating the withholding tax.) Report the gross earnings paid in calendar year 1963 to employees on the payroll at the establishment prior to such deductions as employee's Social Security contributions, withholding taxes, group insurance premiums, union dues, and savings bonds. Include in gross earnings commissions, dismissal pay, pay bonuses, vacation and sick-leave pay, and the cash equivalent of compensation paid in kind. Include salaries of officers of this establishment, if a corporation; if an unincorporated concern, exlcude payments to proprietor or partners. Exclude payments to agricultural employees, fishermen, members of armed forces, and pensioners carried on your active payroll.

Item 4. Plant Man-Hours of Production Workers, by Quarter.—"Plant man-hours" of production workers are designed to measure the over-all activity of the plant during each quarter. The figures should include all man-hours worked or paid for, except hours paid for vacations, holidays, or sick leave. If an employee elects to work during the vacation period, report only actual hours worked by such employee. Overtime hours should be reported as actual hours worked, not straight-time equivalent hours.

Item 5. Cost of Materials, Fuels, Electricity and Contract Work.—The entries in this item are used by the Census Bureau to calculate the 1963 value added by manufacture. The figures reported, therefore, should represent the total cost of materials, supplies, semi-finished goods, fuels, etc., actually consumed or put into production during 1963.

If your records do not show the amounts actually consumed or put into production during 1963, the reported figures may be derived from purchase and other records. Cost of purchases may be used if these do not differ significantly from the amounts actually used. However, if

consumption of any major item differs significantly from purchases, the amount used may be estimated by adding beginning inventories to the amounts purchased and subtracting from this total the cost of goods on hand at the end of the year.

Cost is delivered cost and should be the amount actually paid or payable after discounts and should include freight and other direct charges incurred by the establishment in acquiring materials and supplies consumed. The cost figures for consumption should represent receipts from all sources, i.e., amounts purchased from other establishments, withdrawn from inventories, or obtained from other establishments of the same company. However, if intermediate products were made in this establishment in 1963 and incorporated into other products also made in this establishment, the reported figures should only include the costs of the materials from which the semi-finished items were made.

For materials, parts, and supplies received from other establishments of your company, cost should be checked against the values reported for the plant producing and transferring the codes (see Item D above). Freight and other direct handling charges should be added.

Item 5a. Cost of Materials, Parts, Components, Containers, Supplies, Etc., Consumed.--The delivered cost figures reported in Item 5a should cover all raw materials, containers, scrap, and supplies, etc., which were: (1) put into production, (2) used as operating supplies, (3) used in repair and maintenance. Include also cost of materials owned by you but consumed by other companies to make products for your establishment under contract. Amounts paid to other companies for such contract work should be reported on Line 5e and should include freight in and out. If semi-finished goods, parts, or components were produced during 1963 and incorporated into finished products at the same plant during 1963, include the cost of raw materials used rather than the value of the intermediate products.

Include only physical goods used or put into production. Exclude services used or overhead charges. Exclude cost of such services as advertising, telephone, telegram and cable, insurance, developmental and research services or engineering, management, marketing and other professional consultants, etc., unless charges for such services are included in the prices paid for materials. Exclude also such overhead items as depreciation charges against plant and equipment; rent and rental allowances, interest payments, royalties, and patent fees. Exclude materials, supplies, machinery, and equipment which were used in the construction of new structures or additions to your plant, or new machinery and equipment, and which are chargeable to fixed assets accounts. Exclude products purchased and resold without further manufacture or processing or assembly; their costs should be included in Item 5b.

Item 5b. Cost of Goods Sold Without Further Manufacture, Processing or Assembly in this Establishment.--Report the cost of all products bought and resold in the same condition as when purchased and not made part of another product manufactured by this establishment. (Total sales value of all products resold is to be reported in Item 18 on the line for "Resales.")

Item 5c. Fuel Consumed.--Report the total amount actually paid or payable during 1963 for all fuels consumed for heat, power, or the generation of electricity. Do not include the estimated cost of fuels, such as sawdust or blast furnace gas, produced as a byproduct of your manufacturing activities. Include anthracite and bituminous coal, coke, natural and manufactured gas, fuel, oil, liquified petroleum gas, gasoline, and all other fuels including purchased steam. For selected industries, such as Carbon Black, Blast Furnaces and Coke Ovens, special reporting instructions on the report form provide that the above fuel types should be reported as materials in Item 5a rather than as a fuel Item 5c.

Item 5d. Purchased Electric Energy.--Report the total amount actually paid or payable for electric energy purchased during 1963 from other companies, or received from other establishments of your company. Exclude the value of electricity generated and used at this establishment.

Item 5e. Cost of Work Done for You by Others on Your Own Materials (Contract Work).--If any work was done by others on materials furnished by your establishment, report the total payments made during 1963 for such work, including freight out and in. Exclude the cost of materials worked on, which should be included in Item 5a.

Item 6. Inventories of this Establishment.--See report form.

Item 7. Capital Expenditures for This Establishment (Exclude Expenditures for Land).--Capital expenditures during 1963 may be determined by the following computation: The cost of additions completed during the year, plus construction-in-progress at the end of the year, minus construction-in-progress at the beginning of the year.

Item 7a. New Structures and Additions to Plant.--Report total expenditures during 1963 for new construction, (whether constructed on contract or by your own forces) major alterations, capitalized repairs, and improvement of buildings (including all new elevators, cranes, heating and ventilating equipment, essentially a part of the buildings), other fixed structures (such as blast furnaces, brick kilns, fractionating towers, shipways, and similar types of structures), and site improvements (such as roads, docks, tracks, parking lots, fences, utilities.)

Item 7b. New Machinery and New Equipment.--Report total expenditures at this establishment for new production machinery and equipment and other new machinery and equipment. Include replacements as well as additions to capacity. Include the value of improvements and capitalized repairs to machinery and equipment transferred from other establishments of this company or produced and used at this establishment. Include all new motors, lathes, punch presses and similar machinery and equipment for use in production, as well as all new office machines and fixtures, furniture, cafeteria and dressing room furnishings, automobiles and trucks, and other similar equipment.

Item 7c. Used Plant and Used Equipment Acquired from Others.--Report total expenditures at this establishment for old or existing plants and for second-hand equipment acquired from others (including the U.S. Government). Include at approximate market value machinery or equipment transferred from other plants of your company.

Item 8. Quantity of Electricity.—All quantities for electricity preferably should be reported in thousands of kilowatt hours. Please be careful to enter your figures in the CORRECT COLUMNS.

Item 8a. Purchased Electricity.—Report the quantity for which cost is reported in Item 5d.

Item 8b. Generated Electricity.—Enter the total quantity of electric energy generated in this plant (gross less generating station use) during 1963.

When totals are reported on this line, data relating to the activity of the power stations would also be included in other sections of this report. For example, the number of employees assigned to the power station, their wages and man-hours should be included in the figures reported in Items 2, 3, and 4; and the cost of fuels used to generate electricity, in Item 5c.

Item 8c. Electricity Sold or Transferred.—Enter the quantity of electric energy, which was also included in Items 8a and 8b but which was sold to other companies or transferred, to other manufacturing or non-manufacturing establishments of your company.

Items 9-11.—Not applicable to these forms.

Items 12-15.—See Report forms.

Item 16. Industrial Water Use During 1963 (See Instructions on Forms).—A selected group of establishments, consisting mainly of those consuming large quantities of water, will be required to supply the following additional detail on water consumed during 1964: total intake during the year distributed by source and type of use; quantity discharged; quantity recirculated; and quantity treated.

Items 17-23—(See instructions on form.)

Period of Report.—Enter the month and day of the beginning and the end of period your report covers. If a calendar year report: "From January 1 to December 31, 1963;" if a fiscal year, specify which (such as "From December 1, 1962 to November 30, 1963)." If a part year report is submitted because the establishment was not in operation or under your company's control for the entire year, specify the actual period covered: For example, January 1, 1963 to August 15, 1963 or June 1 to December 31, 1963.

Form Approved: Budget Bureau No. 41-R1256.11

FORM MA-100

U.S DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

ANNUAL SURVEY OF MANUFACTURES

(For 1963 this is the front sheet of the 1963 Census of Manufactures form)

V
TAB x 1
IND-D 2
IND-T 3
AREA 4
INFL 5
S 6
PPN 7

CONFIDENTIAL - Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.

In correspondence pertaining to this report please refer to the 11-digit file number in the box above your name.

DUE 30 DAYS AFTER RECEIPT
PLEASE COMPLETE EVERY ITEM TO AVOID CORRESPONDENCE
BE SURE TO READ INSTRUCTION MANUAL BEFORE COMPLETING REPORT

(Please correct if mailing address has changed)

ITEM 1 - GENERAL INFORMATION

A. NAME OF ESTABLISHMENT

B. PHYSICAL LOCATION OF ESTABLISHMENT on December 31, 1963. (Your answers to this item should relate to the ACTUAL PHYSICAL LOCATION of this establishment which may be different from the mailing address.)

(1) Street and number at establishment location*

* *If establishment location cannot be described by street and number, give name (and number, if any) of road or highway and sufficient information to locate establishment, e.g., Rt. 25, 3 miles south of Charlesville.*

(2) Place *(Check type of place and enter name)*

Type (Check first applicable one)	Name of place
☐ City	
☐ Village or borough	
☐ Town	
☐ Township	
☐ Other (Specify)	

COMPLETE EVERY ITEM *(Enter "0" when appropriate)*

			1962	1963	1964	Key
ITEM 2 NUMBER OF EMPLOYEES	Number of production workers during pay period ended nearest 15th of —	a. March				0-1
		b. May				0-2
		c. August				0-3
		d. November				0-4
	e. Sum of Lines a through d					0-5
	f. AVERAGE NUMBER *(Divide sum on Line e by 4 — omit fractions and decimals)*					0-6
	g. All other employees, March 15th					0-7
	h. TOTAL NUMBER OF EMPLOYEES → *(Sum of Lines f and g)*					0-8

IMPORTANT: Report Items 3-11 in thousands. (If total payroll is $15,662, enter $16)

					Key
ITEM 3 PAYROLLS ($000)	a. Production workers' wages				1-1
	b. All other employees' salaries and wages				1-2
	c. TOTAL PAYROLLS (Sum of Lines a and b) →				1-3
ITEM 4 PLANT MAN-HOURS OF PRODUCTION WORKERS, BY QUARTER (000)	a. January through March				1-4
	b. April through June				1-5
	c. July through September				1-6
	d. October through December				1-7
	e. TOTAL PRODUCTION WORKERS' MAN-HOURS → (Sum of Lines a–d)				1-8
ITEM 5 COST OF MATERIALS, FUELS, ELECTRICITY, CONTRACT WORK ($000)	a. Cost of materials, parts, components, containers, etc., consumed				2-1
	b. Cost of products bought and resold as such				2-2
	c. Cost of fuels consumed				2-3
	d. Cost of purchased electricity				2-4
	e. Cost of contract work done for you by others on your materials				2-5
	f. TOTAL COST (Sum of Lines a–e) →				2-6★

(3) Is the establishment within the legal boundary of the place reported in (2) above? . . . . . ☐ Yes ☐ No

(4) County

(5) State

C. FORM OF OWNERSHIP AT END OF 1963

(Check one)

1 ☐ Individual proprietor
2 ☐ Partnership
0 ☐ Corporation (Do not include any form of cooperative association.)
8 ☐ Cooperative association (corporate or noncorporate)
9 ☐ Other (Specify) _____

D. FEDERAL SOCIAL SECURITY IDENTIFICATION NUMBER

Enter identification number used for this establishment (as shown on Employer's Quarterly Federal Tax Return, Treasury Form 941).

1963	
1964	

E. COMPANY ORGANIZATION

	Yes	No
(1) Does this company operate more than one place of business under the same Identification Number shown in D above?	☐	☐
(2) Does this company own or control another company? . .	☐	☐
(3) Is this company owned or controlled by another company?	☐	☐

(If "Yes" is checked in Part (3), give name and address of owning or controlling company.)

FOR CENSUS USE ONLY

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

ITEM 6 INVENTORIES OF THIS ESTABLISHMENT AT END OF YEAR ($000)	a. Finished products inventories	3-1				3-5
	b. Work-in-process inventories	3-2				3-6
	c. Materials, supplies, fuels, etc., inventories	3-3				3-7
	d. TOTAL INVENTORIES, END OF YEAR (Sum of a—c) →	3-4				3-8
ITEM 7 CAPITAL EXPENDITURES DURING YEAR (Exclude land) ($000)	a. New structures and additions to this plant					4-1
	b. New machinery and new equipment					4-2
	c. Used plant and used equipment acquired from others					4-3
	d. TOTAL CAPITAL EXPENDITURES (Sum of Lines a—c) →					4-4
ITEM 8 QUANTITY OF ELECTRICITY (Thous. of KWH)	a. Purchased electricity (for which cost is reported in 5d)					4-5
	b. Generated electricity (gross less generating station use)					4-6
	c. Electricity sold or transferred to other establishments					4-7

ITEM 9 VALUE OF PRODUCTS SHIPPED AND OTHER RECEIPTS ($000)

(Refer to manual for special instructions. If additional lines are needed, use Item 9A on reverse side)

	Product classes of this establishment (Describe)	Product Class Code (See manual) 5	1962	1963	1964	
a.						
b.						
c.						
d.						
e.						
f.						
g.						
h.	Insert total value of shipments reported in Item 9A on reverse side.					
i.	Receipts for work or services performed by you for others on their materials (Describe) _____	93000				
j.	Miscellaneous receipts (Repair work, installation, sales of scrap, etc.) (Describe) _____	99980				
k.	Sales of products bought and resold without further manufacture, processing, or assembly. (Report cost in Item 5b)	99989				
l.	TOTAL (Sum of values in Lines a—k) →	77000				

ITEM 10 QUANTITY OF PRODUCTS SHIPPED

(If additional lines are needed, use Item 14 on reverse side.)

	Report quantity for products listed in Item 9 only if requested in manual. Repeat product description from Item 9.	Unit of quantity (See manual)	Product Class Code (See manual) 6	1962	1963	1964
a.						
b.						
c.						
d.						

Please continue on Page 2

ITEM 9A - VALUE OF PRODUCTS SHIPPED AND OTHER RECEIPTS ($000)

Additional product classes of this establishment (Describe)	Product Class Code (See manual) 5	1962	1963	1964
a.				
b.				
c.				
d.				
e. TOTAL → (Transfer to Item 9, Line h)				

ITEM 11 VALUE OF FIXED ASSETS AND RENTAL PAYMENTS ($000)

9 | 9-1 | 333	End of 1962	End of 1963	End of 1964	Key
a. Gross (book) value of fixed assets as of end of the year (original cost of buildings, structures, machinery, equipment, and other depreciable fixed assets). (See Instruction Manual)	9-2	9-3		

b. Rental payments during year

Does this establishment use any rented or leased buildings, structures, or transportation, production or office equipment in its operations? . . . . . 1 ☐ Yes 2 ☐ No — 9-4

(If "Yes," please complete Lines (1) and (2) below)

	1963	1964	
(1) Rental payments (or equivalent charges) for use of buildings and structures (exclude payment for land).			9-5
(2) Rental payments (or equivalent charges) for use of transportation, production, and office equipment by this establishment.			★ 9-6

NOTE: If rental payments are not made directly from the establishment's accounts but are handled centrally at a company or division level, please report the share of overhead or estimate the share of rental charges appropriate to the operation of this establishment.

ITEM 12 CHANGE IN PHYSICAL LOCATION OF ESTABLISHMENT (FACTORY OR MILL); COMPANY ORGANIZATION; AND CHANGES IN OWNERSHIP OR OPERATION OF ESTABLISHMENT

(Please check proper box and furnish information requested below for each year)	1963 Yes	1963 No	1964 Yes	1964 No
a. Did the physical location of the establishment change since 1963? (If "Yes," please report the new location in Item 14)			☐	☐
b. If the answer to Item 1E(2) (Page 1) was "No," did the company have any plants under construction but not yet in operation?	☐	☐	☐	☐
c. Changes in ownership or operation of this establishment during the year 1. Purchased (Enter date, name, and address of former owner in Item 14)	☐	☐	☐	☐
2. Sold (Enter date, name, and address of purchaser in Item 14)	☐	☐	☐	☐
3. Went out of business (Specify date in Item 14)	☐	☐	☐	☐
4. Reorganized (Describe in Item 14, e.g., partnership change or change in corporate status)	☐	☐	☐	☐
5. Started new business (no previous owner)	☐	☐	☐	☐
6. Remained the same as in the previous year	☐	☐	☐	☐

ITEM 13 CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT

The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report:

(a) Review the report carefully to see that no items are omitted for the year being covered.
(b) Calculate the four "reasonableness" checks described below, entering the figures for each, and review the results.
(c) Correct your report for any errors you find; explain unusual figures in Item 14.

"Reasonableness" checks	Calculation required for each check	Resulting figures for the year -- 1963	1964
1. Average hourly wages per production worker	Item 3a (Production workers' wages) ÷ Item 4e (Total man-hours)	$	$
2. Hours worked per year per production worker	Item 4e (Total man-hours) x 1000 ÷ Item 2f (Average number of production workers)	Hrs.	Hrs.
3. Salaries and wages per dollar of shipments	Item 3c (Total payroll) ÷ Item 9*l* (Total value of shipments)	¢	¢
4. Materials cost per dollar of shipments	Item 5f (Total materials cost) ÷ Item 9*l* (Total value of shipments)	¢	¢

5. Is the total for value of shipments (Item 9*l*) greater than the sum for payroll (Item 3c) plus total cost of materials, etc. (Item 5f)? . . . . . ☐ Yes ☐ No *(If "No," please explain in Item 14)*

ITEM 14 REMARKS PERTAINING TO THE REPORT FOR THE SPECIFIED YEAR

1963	
1964	

ITEM 15 CERTIFICATION

Name of person to contact if questions arise regarding this report	Address *(Revise when necessary)*	Telephone No.

CERTIFICATION - This report is substantially accurate, and covers --

	Period covered From	To	Signature of authorized person	Title	Date
1963→					
1964→	From	To	Signature of authorized person	Title	Date

D-22

PENALTIES FOR FAILURE TO REPORT — **DUE DATE - FEBRUARY 29, 1964** — Form Approved; Budget Bureau No. 41-6244

FORM MC-36Z (3630)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1963 CENSUS OF MANUFACTURES

ELECTRICAL MACHINERY, EQUIPMENT AND SUPPLIES

PLEASE NOTE:

A. The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. Incomplete and inaccurate answers will result in correspondence which is both costly and time consuming. Be sure to **complete every item.** Enter "0" in Items B-D, if appropriate.

B. If book records are not available, reasonably accurate estimates for most items are acceptable for the statistical purposes of this survey.

C. Please complete and return this form in the envelope provided to the **Jeffersonville Census Operations Office, Jeffersonville, Indiana.** If filing by due date causes an undue burden, a request for extension should be directed to that office.

D. **PLEASE READ INSTRUCTIONS BEFORE COMPLETING REPORT**

Figures for dollars, (Items C, D, and E) should be rounded to THOUSANDS. If you wish you may report to the nearest unit. In either case, **please be careful to enter your figures in the** CORRECT COLUMNS. *(See example below)*

EXAMPLE — If the payroll is $1,125,628.28:

	Millions	Thousands	Dollars	Cents
	000	000	000	XX
Preferred method →	$ 1	126		XX
Acceptable method →	$ 1	125	628	XX

ITEM A - GENERAL INFORMATION

1. NAME OF ESTABLISHMENT

2. LOCATION OF ESTABLISHMENT

a. Street and number of establishment location

b. Place *(City, Village, Town, Township)*

c. Is the establishment within the legal boundary of the place reported in (b) above?..... ☐ Yes ☐ No

d. County

e. State

3. FORM OF OWNERSHIP AT END OF 1963 *(Check one)*

1 ☐ Individual proprietor
2 ☐ Partnership
0 ☐ Corporation (Do not include any form of cooperative association)
8 ☐ Cooperative association (corporate or noncorporate)
9 ☐ Other *(Specify)* _____

CONFIDENTIAL - Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.

In correspondence pertaining to this report please refer to the 11-digit file number in the box above your name.

MC-36Z (3630)

(Please correct if mailing address has changed)

ITEM E - VALUE OF ALL PRODUCTS SOLD OR SHIPPED, AND OTHER RECEIPTS

1. Please describe the work that is done at this establishment (plant)
Examples: Make mica parts for radios; assemble electric sockets.

2. Not applicable to this form.

3. PRODUCTS AND SERVICES

Line No.	Report the value of products made in this establishment in 1963. (If your products are not printed in the list below, describe them on the blank lines, and enter the amount sold or shipped.) *(See instructions on reverse side)*	8 8-1XX Census product code (B-1)		8-4 Value of products shipped and other receipts (E) Millions	Thousands	Dollars	Cents
				000	000	000	XX
1	Test equipment for testing electrical, radio, and communication circuits, and motors	36112 20	91	$			XX
2	Electrical measuring instruments, except integrating	36113 30	61	$			XX
3	Switchgear and switchboard apparatus	36130 00	37	$			XX
4	Industrial controls	36220 99	48	$			XX

4. FEDERAL SOCIAL SECURITY IDENTIFICATION NUMBER

Enter identification number used for this establishment (as shown on Employer's Quarterly Federal Tax Return, Treasury Form 941).

ITEM B - NUMBER OF EMPLOYEES (Exclude proprietor and partners)

Report the total number of paid employees during pay period ended nearest the 15th of:

	Total number of paid employees	Key
1. March 1963		0-1
2. May 1963		0-2
3. August 1963		0-3
4. November 1963		0-4

ITEM C - PAYROLLS (Exclude payments to proprietor and partners)

	Millions	Thousands	Dollars	Cents	
	000	000	000	XX	
Salaries and wages paid in 1963 TOTAL →	$			XX	0-5xx

ITEM D - COST OF MATERIALS, PARTS, SUPPLIES, FUELS, ELECTRICITY, AND CONTRACT WORK

	Millions	Thousands	Dollars	Cents	
	000	000	000	XX	
TOTAL →	$			XX	0-8

Cost of materials, parts, components, supplies, containers, fuels, and electricity consumed in 1963. (Include the cost of work done for you by others on your own materials, and the cost of products bought and resold without further manufacture, processing, or assembly.)

5	Small household electric appliances *(Specify kind)*	36343 10	13	$		XX
6	Parts and attachments for small household electrical appliances	36344 99	23	$		XX
7	Portable lamps (residential - table, floor, wall, etc.)	36427 99	56	$		XX
8	Current-carrying wiring devices	36430 00	74	$		XX
9	Noncurrent-carrying wiring devices and supplies, except transmission hardware and conduit	36443 00	02	$		XX
10	Radio and television broadcast equipment, and closed circuit systems	36622 99	14	$		XX
11	Electronic components and accessories, including parts for electron tubes (except glass blanks)	36795 00	38	$		XX
12	Storage batteries, SLI type	36911 99	83	$		XX
13	**All other products** *(List separately and describe)*			$		XX
14				$		XX
15				$		XX
16				$		XX
17				$		XX
18	Receipts for work or services performed by you for others on their materials. *(Describe operation performed and product)*	93000 99	05	$		XX
19	Miscellaneous receipts (Repair work, installation, sales of scrap, etc.) *(Describe)*	99980 99	76	$		XX
20	Sales of products bought and resold without further manufacture, processing or assembly in this establishment. *(The cost of such products should be reported in Item D.)*	99989 99	86	$		XX
21	**TOTAL (Sum of Lines 1–20)** →	77000 99	08	$		XX

FOR CENSUS USE ONLY

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

CERTIFICATION - This report is substantially accurate and has been prepared in accordance with instructions.

Signature of authorized person	Title	Date

Form MC-36Z

INSTRUCTIONS

Item B - Number of Employees—Report the total number of employees paid during the pay period ending nearest the 15th of the specified months. If an unincorporated business, exclude proprietor and partners from the reported totals.

Item C - Payrolls—Report the total paid as wages, salaries, bonuses and commission during 1963. If an unincorporated business, exclude payment to proprietor or partners. The definition of salaries and wages used for calculating the withholding tax may be followed.

Item D - Cost of Materials, Parts, Supplies, Fuels, Electricity, and Contract Work—Report the cost of all materials, parts, supplies, and containers consumed during 1963, which were used (a) directly to produce products, (b) as operating supplies, and (c) for repair and maintenance. Include the cost of goods bought for resale, the value for which is reported separately in Item E, Line 20. Include also the cost of fuels and electricity purchased.

The total reported should also include the cost of materials owned by you but processed by other companies which make products under contract for your firm and the cost of such contract work.

Item E-3 - Value of All Products Sold or Shipped, and Other Receipts—Enter on Line 21, Column (E), the total receipts from products sold or shipped, or services performed by this establishment during 1963. Account for all receipts of this establishment. Then report separately on Lines 1— 12 in Column (E) the value of shipments of each product listed. **Do not combine preprinted product lines.**

Lines 13—17 — If some of the products you made in 1963 are not listed, please list each such product on a separate line under "All other products," and enter in Column (E) the 1963 value of shipments.

Line 20 — Report sales of products which were resold as originally purchased and not used in further manufacturing, processing, or assembling of products made in this establishment.

After completing this schedule, would you please—

(a) Review to see that entries have been made for all applicable items.

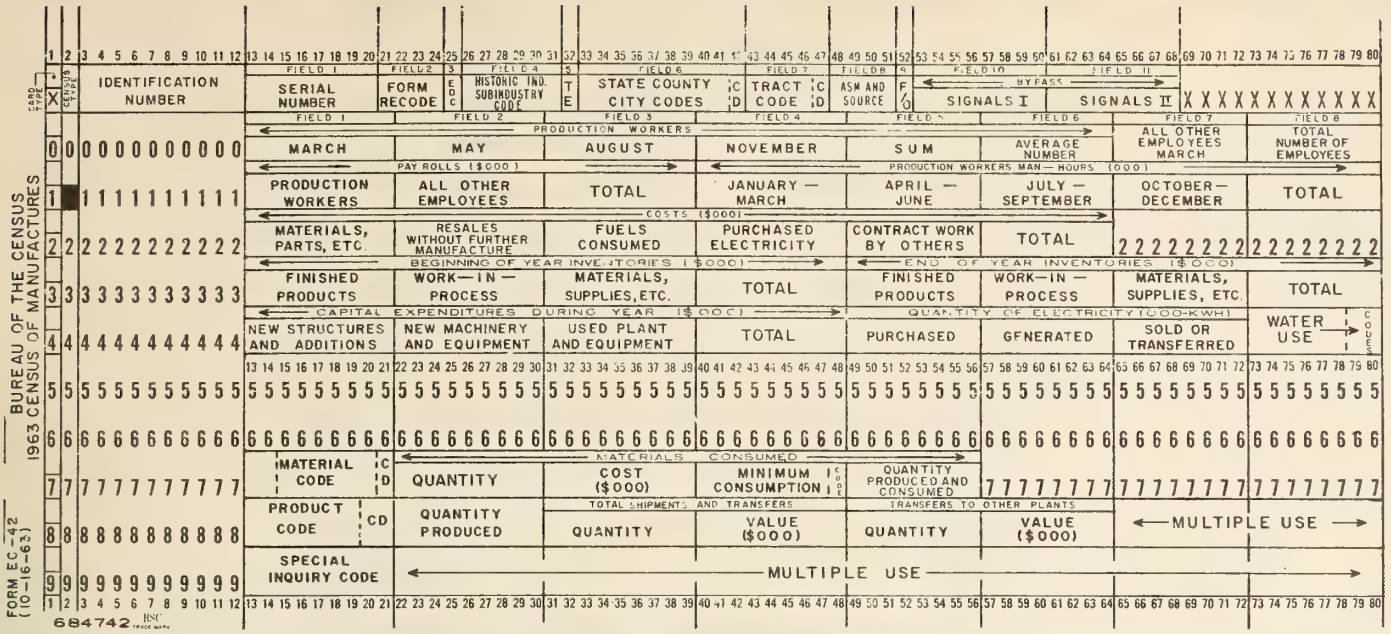
(b) Compare the sum reported for payrolls **(Item C)** and Materials **(Item D)** with the total reported in **Item E-3,** Total Value of Products Shipped and Other Receipts.

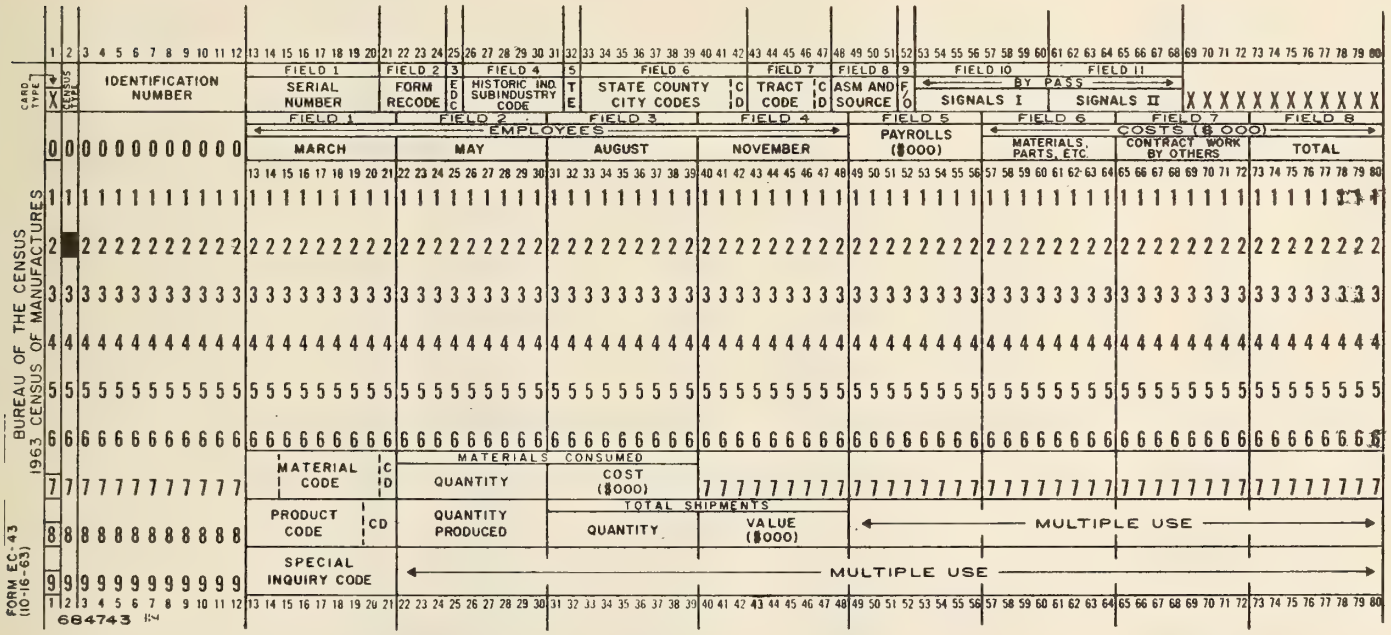
(c) If the sum for Items C and D exceeds the total on Line 21, Item E-3, please explain in "Remarks."

Remarks

PLEASE NOTE: In all correspondence with the Census Bureau, please include the 11-digit **file number** which appears in the address box of the report form. High-speed electronic equipment will be used to identify both the correspondence and the reports in the 1963 Economic Censuses. If your correspondence does not include the Census file number **it will be returned** for the addition of that number. Address all correspondence to JEFFERSONVILLE CENSUS OPERATIONS OFFICE, 1201 East 10th Street, Jeffersonville, Indiana.

Please **do not mark or mar** the two lines of symbols above the address on each form. These symbols or rectangles which are unique to each establishment will be photographed and used to record mechanically the receipt of your report form.


BUREAU OF THE CENSUS
1963 CENSUS OF MANUFACTURES
FORM EC-42
(10-16-63)
684742
LONG FORM CARD
IDENTIFICATION NUMBER
SERIAL NUMBER
FORM RECODE
HISTORIC IND. SUBINDUSTRY CODE
STATE COUNTY CITY CODES
TRACT CODE
ASM AND SOURCE
BY PASS
SIGNALS I
SIGNALS II
MARCH
MAY
AUGUST
NOVEMBER
SUM
AVERAGE NUMBER
ALL OTHER EMPLOYEES MARCH
TOTAL NUMBER OF EMPLOYEES
PRODUCTION WORKERS
PAY ROLLS ($000)
PRODUCTION WORKERS MAN—HOURS (000)
ALL OTHER EMPLOYEES
TOTAL
JANUARY — MARCH
APRIL — JUNE
JULY — SEPTEMBER
OCTOBER — DECEMBER
COSTS ($000)
MATERIALS, PARTS, ETC.
RESALES WITHOUT FURTHER MANUFACTURE
FUELS CONSUMED
PURCHASED ELECTRICITY
CONTRACT WORK BY OTHERS
BEGINNING OF YEAR INVENTORIES ($000)
END OF YEAR INVENTORIES ($000)
FINISHED PRODUCTS
WORK—IN—PROCESS
MATERIALS, SUPPLIES, ETC.
CAPITAL EXPENDITURES DURING YEAR ($000)
QUANTITY OF ELECTRICITY (000-KWH)
NEW STRUCTURES AND ADDITIONS
NEW MACHINERY AND EQUIPMENT
USED PLANT AND EQUIPMENT
PURCHASED
GENERATED
SOLD OR TRANSFERRED
WATER USE
MATERIALS CONSUMED
MATERIAL CODE
QUANTITY
COST ($000)
MINIMUM CONSUMPTION
QUANTITY PRODUCED AND CONSUMED
TOTAL SHIPMENTS AND TRANSFERS
TRANSFERS TO OTHER PLANTS
PRODUCT CODE
QUANTITY PRODUCED
VALUE ($000)
MULTIPLE USE
SPECIAL INQUIRY CODE


BUREAU OF THE CENSUS
1963 CENSUS OF MANUFACTURES
FORM EC-43
(10-16-63)
684743
SHORT FORM CARD
IDENTIFICATION NUMBER
SERIAL NUMBER
FORM RECODE
HISTORIC IND. SUBINDUSTRY CODE
STATE COUNTY CITY CODES
TRACT CODE
ASM AND SOURCE
BY PASS
SIGNALS I
SIGNALS II
EMPLOYEES
MARCH
MAY
AUGUST
NOVEMBER
PAYROLLS ($000)
COSTS ($000)
MATERIALS, PARTS, ETC.
CONTRACT WORK BY OTHERS
TOTAL
MATERIALS CONSUMED
MATERIAL CODE
QUANTITY
COST ($000)
TOTAL SHIPMENTS
PRODUCT CODE
QUANTITY PRODUCED
QUANTITY
VALUE ($000)
MULTIPLE USE
SPECIAL INQUIRY CODE

DUE DATE: SIXTY DAYS AFTER RECEIPT OF FORM

Form Approved: Budget Bureau No. 41-6244

FORM MC-D3
(12-24-63)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1963 CENSUS OF MANUFACTURES

DEPARTMENT OF DEFENSE ESTABLISHMENTS PRIMARILY ENGAGED IN MANUFACTURING AND ASSEMBLY AND/OR RESEARCH AND DEVELOPMENT OWNED AND OPERATED BY THE DEPARTMENT OF DEFENSE (Includes shipyards)

CONFIDENTIAL – Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process

INSTRUCTIONS – This report is to be prepared by those Department of Defense establishments whose primary activities are manufacture and assembly and/or research and development. All shipyards are included.

The information requested is based upon reports now regularly prepared by most such establishments.

In correspondence pertaining to this report please refer to the 11-digit file number in the box above your name.

Form MC-D3

KEEP THIS COPY FOR YOUR FILES

PLEASE COMPLETE AND RETURN THE FORM WHICH SHOWS YOUR NAME AND ADDRESS

(Please correct if mailing address has changed)

ITEM 1 – NAME AND PHYSICAL LOCATION OF ESTABLISHMENT ON DECEMBER 31, 1963

a. Name of establishment

Your answers to parts b, c, d, e, and f of this item should relate to the ACTUAL PHYSICAL LOCATION of this establishment which may be different from the mailing address.

b. Street and number at establishment location *

**If establishment location cannot be described by street and number, give name and number, if any, of road or highway and sufficient information to locate establishment, e.g. Rt. 25, 3 miles south of Charlesville.*

c. Type and name of place in which located *(Check first applicable type and enter name of place.)*

Type	Name of place
☐ City	
☐ Village or borough	
☐ Town	
☐ Township	
☐ Other *(Specify)*	

d. Is this establishment physically located within the legal boundaries of the place named in "c"?

☐ Yes ☐ No

e. County in which located

f. State

g. Telephone number of establishment

ITEM 3 – NATURE OF ACTIVITY

Describe briefly the kind of activity of this establishment.
If a manufacturing plant, list the three most important products.

ITEM 4 EMPLOYMENT AND PAYROLLS IN CALENDAR YEAR 1963 (Civilian employees only)	Class of employee	Number of civilian employees in 1963						Total wages and salaries of civilian employees (Thousands) (G)
		At end of month (As reported on Civil Service form SF-113*)				Sum of columns A, B, C, and D (E)	Column E divided by 4 (F)	
		March (A)	June (B)	September (C)	December (D)			
	a. Wage Board employees							$
	b. All others							$
	c. TOTAL CIVILIAN EMPLOYEES → (Sum of lines a and b)							$

* The number of Wage Board employees (line a) should be the same as reported on line 7 of SF-113. The total (line c) should be the same as reported on line 1 of SF-113.

ITEM 5 MAN-DAYS OF WAGE BOARD EMPLOYEES BY CALENDAR QUARTER 1963	Enter the total number of man-days of Wage Board employees for each calendar quarter of 1963. Do not include days paid for vacations, holidays, or sick leave.	1963 Quarterly period	Man-days (Thousands) (A)	Estimated number of man-hours** (Thousands) (B)
		a. January through March		
		b. April through June		
		c. July through September		
		d. October through December		
		e. TOTAL, 1963 → (Sum of lines a, b, c, and d)		

** Obtain figure for column (B) by multiplying column (A) by average number of hours per day per Wage Board employees in this establishment . . . . . .

Please continue on page 2

USCOMM-DC 23054

ITEM 6

BILLINGS BY THIS ESTABLISHMENT DURING CALENDAR YEAR 1963

Enter below the specified classes of billings of this establishment for calendar year 1963.

Billings for products and services (including progress billings)	Line No.	Value *(Thousands of dollars)*
Manufacture and assembly	1	$
Construction and conversion	2	$
Overhaul, repair and renovation	3	$
Alteration and modification	4	$
Research and development	5	$
Other billings	6	$
Total billings for products and services	7	$
Increase or decrease in unbilled costs of work in progress	8	$
TOTAL EARNED REVENUE →	9	$

ITEM 7

COSTS DURING CALENDAR YEAR 1963

Types of costs incurred	Line No.	Costs *(Thousands of dollars)*
Materials, supplies and parts used	1	$
Salaries and wages (Same as item 4c, column (G))	2	$
Contractual services and other costs	3	$
TOTAL COSTS INCURRED →	4	$

ITEM 8

CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT

(Please complete this item after you have answered all items on this report.)

The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report:

a. Review this report carefully to see that no items are omitted.
b. Calculate and enter the four "reasonableness" checks (described below), then review the resulting figures.
c. Correct your report for any errors you find; explain unusual figures in "Remarks" section.

"Reasonableness" checks	Calculation required for each check	Resulting figures for 1963
(1) Average hourly wages per Wage Board employee	Item 4a, column G (Wages paid Wage Board employees) ÷ item 5e, column B (Total estimated man-hours)	$
(2) Man-days per year per Wage Board employee	Item 5e, column A (Wage Board man-days in thousands) x 1,000 ÷ item 4a, column F (Average number of Wage Board employees)	Man-days
(3) Wages and salaries per dollar of earned revenue	Item 7, line 2, (Wages and salaries of civilian employees) ÷ item 6, line 9 (Total earned revenue)	$

(4) Is the total earned revenue (item 6, total) greater than total costs incurred (item 7, total)? ..... ☐ Yes ☐ No *(If "No," please explain in "Remarks" section.)*

ITEM 9

REMARKS PERTAINING TO THIS REPORT

PERIOD OF REPORT

This report covers the period from _____ to _____

ITEM 10	Name of person to be contacted regarding this report	Address	Telephone No.

ITEM 11

CERTIFICATION – This report is substantially accurate and has been prepared in accordance with instructions.

Name of company	Address	
Signature of authorized official	Title	Date

FORM MC-D3 (12-24-63)

USCOMM-DC 23054

DUE DATE: 60 DAYS FOLLOWING RECEIPT OF FORM Budget Bureau No. 41-6423; Approval Expires December 31, 1964

FORM MA-175
(6-29-64)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

REPORT ON SHIPMENTS TO OR RECEIPTS FOR WORK DONE FOR FEDERAL GOVERNMENT AGENCIES AND THEIR CONTRACTORS AND SUPPLIERS IN 1963

(Based on the Total Shipment Figures from the Annual Survey of Manufactures, Census Form MA-100)

TO: Bureau of the Census, Industry Division
Washington, D.C. 20233

CONFIDENTIAL – Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.

ITEM 1 – In correspondence about the report for this establishment, please refer to your 11-digit file number below.

(PLEASE RETURN THIS COPY)

ITEM 2 Please check the box which describes the 1963 receipts for shipments or other work done in this plant for Federal Government agencies and their contractors and suppliers:

☐ None ☐ Up to $100,000 ☐ $100,000 or more

For purposes of this report, such receipts will include payments received by you for work done by you on Federal Government prime contracts as well as the value of materials, components, subassemblies, and services supplied by you to Federal Government contractors and suppliers for use in their performance of Federal Government contracts.

If your response to this question was "$100,000 or more," please complete the form on the reverse side. Otherwise, sign the form in the space provided below and return it.

INTRODUCTORY NOTE

The Census Bureau is conducting this survey to develop a measure of the level of industrial activity generated by the expenditures made by Federal Government agencies. Special attention is directed toward expenditures made by the Department of Defense (DOD), the National Aeronautics and Space Administration (NASA), and the Atomic Energy Commission (AEC).

Industrial activity generated by Federal Government expenditures is being measured in terms of receipts (including value of shipments) for work done, or for value of products shipped to Federal agencies, their contractors, subcontractors and suppliers. For each plant covered by the report such receipts will consist of two kinds of payments. The first is payments received for work done directly for Federal agencies on Government prime contracts. The second is payments received for work done for other Government contractors and suppliers for use in the performance of Federal Government contracts. Subcontract receipts reported will normally be based on payments made for work done on Government subcontracts when subject to the Renegotiation Act of 1951, as amended. These receipts should include the value of materials, components, subassemblies, and services supplied to other plants of the company (interplant transfers) as well as to contractors and suppliers outside the company for use in the performance of contracts. This is in accord with standard Census reporting procedures.

This survey is being conducted on an establishment or plant basis. This method of reporting is necessary so that the data reported by each plant may be tabulated by the geographic area in which the work is actually being performed. Additionally, it will permit the data to be classified by appropriate product class and Standard Industrial Classification.

SPECIFIC INSTRUCTIONS

Except as may be specifically requested, a report should be submitted for each establishment for which you received a preaddressed form. If additional forms are needed, please write to us specifying the address of the establishment for which a blank form is required. If you have any questions about the survey, write to the Bureau of the Census, Washington, D.C., 20233, referring to form MA-175 and to the file number in the upper right-hand corner of the address box. The basic concepts used in this survey (establishment, shipments, receipts, materials consumed, employment, etc.) are the same as those used in the Annual Survey of Manufactures (Form MA-100), and related figures reported on each form should agree.

Columns (1), (2), and (3) – These entries--lines a through l--should correspond with those entered in item 9 and item 9A for the Product Class Description, the Product Class Code, and the 1963 data column from the related Census form MA-100 for 1963.

The three lines "i," "j," and "k" that follow specific product class entries, are in the same position in which they appear on form MA-100. Only "j" is expected to be of particular importance on form MA-175; "i" is an item primarily of interest to manufacturing industries not covered by form MA-175, such as textiles and apparel, coating and engraving, etc.; "k" is used by manufacturers to list the shipments of products they buy and ship without any manufacturing or assembling, usually to round out a product line. Line "j" on the other hand, can be very important in this survey. Receipts for research and development that have not been separately identified on form MA-100 should be reported here. (Note that research and development receipts for certain aerospace activities are to be supplied in lines "a" – "h" in the appropriate class of product (37216,37223,37226,37293,37294,19253).) Line "j" would also be used for reporting receipts for installation or testing. Installation or testing costs of more than $1 million done at other locations should not be reported on the form for the manufacturing plant. Instead, a separate MA-175 form should be filed for each such installation or test site. If you have such cases, it would be desirable to write to the Census Bureau describing the situation before completing the MA-175 forms.

Columns (4) through (7) – Data reported should represent the total value of shipments, billings, or receipts (in $000) from Federal Government agencies during 1963. For long lead time production or research, development, testing, and evaluation programs, the value of work done during the year is reported on the Annual Survey of Manufactures and on this report. Such a figure is represented by net billings, or payments received by you (including progress payments), for work done during the year. This method of estimating shipments to the Government has frequent application to work done on aircraft, ships, missiles, space vehicles, and the like, as well as work done on related systems.

Columns (8) through (13) – Data reported should represent the value of receipts (in $000) for work done by you for Government prime contractors and subcontractors for use in the performance of Government contracts. It is recognized that indirect Government work is not always identified as such. In view of this, it will be acceptable to use as a base receipts on Government subcontracts subject to the Renegotiation Act of 1951, as amended. Note particularly that the value of transfers to other plants of the company as well as receipts from contractors outside the company are to be included.

Columns (8) through (11) – Data entered should represent the value of receipts (in $000) for work done by you on subcontracts of DOD, NASA, AEC, and other Government agencies when the Government agency placing the prime contract is known to you.

Columns (12) or (13) – Receipts for work done by you on Government subcontracts, for which Government agency the prime contract is not specifically known to you should be entered. If you know that the subcontract work is for DOD, NASA, or AEC, but you cannot specifically determine which, enter the value of receipts (in $000) in column (12). If the subcontract work is for another Government agency, or for a Government agency unknown to you, enter the value of receipts (in $000) in column (13).

Column (14) – Data reported should represent the difference between the total values of shipments and/or receipts, column (3), and the sum of entries in columns (4) through (13).

Name of person to contact regarding this report	Address *(Number and street, city, State, ZIP code)*	Telephone No.

CERTIFICATION – This report is substantially accurate and has been prepared in accordance with instructions.

Name of company	Address *(Number and street, city, State, ZIP code)*	
Signature of authorized official	**Title**	**Date**

USCOMM-DC 30082-P64

REPORT ON SHIPMENTS TO OR RECEIPTS FOR WORK DONE FOR FEDERAL GOVERNMENT AGENCIES AND THEIR CONTRACTORS AND SUPPLIERS IN 1963

ITEM 3	a. Total employment of this establishment, average for the year 1963 *(Same as item 2h, 1963 column, Census form MA-100)* →	Total employees	b. Total materials, fuels consumed, etc., in 1963 by this establishment for all purposes *(Same as item 5f, 1963 column, Census form MA-100)* →	Thousands of dollars	c. Name of establishment *(Enter from address box on front of form)*	d. 11-digit file No.

ITEM 4 – VALUE OF SHIPMENTS AND OTHER RECEIPTS OF THIS ESTABLISHMENT IN 1963

(Report values in thousands of dollars)

Product classes of this establishment *(Describe)*	Product class code	Total value of shipments and/or receipts	Shipments to or receipts for work done for Federal Government agencies and their contractors and suppliers in 1963										Other shipments *(Column 3 minus column 4 through column 13)*
			Direct on prime contracts				Indirect on subcontracts						
							Government agency specifically known				Government agency not specifically known		
			DOD	NASA	AEC	Other Federal agencies	DOD	NASA	AEC	Other	Either DOD, NASA, or AEC	Other	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
a.													
b.													
c.													
d.													
e.													
f.													
g.													
h.													
i. Receipts for work or services performed by you for others on their materials *(Describe)*	93000												
j. Other receipts – Particularly R and D not identified as to specific product class, and receipts for installation or testing *(See instructions)*	99980												
k. Shipments of products bought and resold without further manufacture, processing, or assembly	99989												
l. TOTAL → *(Same as item 9, line l, 1963 column, Census form MA-100)*	77000												

FORM MA-175 (6-29-64)

DUE DATE: 30 DAYS FOLLOWING RECEIPT OF FORM

Form Approved: Budget Bureau No. 41-6422

FORM MA-161
(6-23-64)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

EXPORTS OF MANUFACTURED PRODUCTS 1963

PLANT REPORT

TO: Bureau of the Census, Industry Division
Washington, D.C. 20233

PLEASE READ INSTRUCTIONS ON REVERSE SIDE BEFORE COMPLETING YOUR REPORT.

CONFIDENTIAL—Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.

Item 1 – Name and address of manufacturing plant *(In correspondence pertaining to this report please refer to the 11-digit file number in the box above your name.)*

(PLEASE RETURN THIS COPY)

Item 2 **Did the plant identified in item 1 produce for export in 1963 more than $25,000 worth of products?** (i.e., did it export this amount either directly or through some other parts of your company or its affiliates, or do you know that shipments of the plant to others were for export without further processing?) . . . . . ☐ Yes ☐ No

If your response to this question is "No," sign the form in the space provided below and return it.

Item 3	**Total value of products shipped and other receipts in 1963, and exports in 1963**	*(Thousands of dollars)*
	a. Total value of products shipped and other receipts of this establishment in 1963 (Same as item 9, total for 1963 on your file copy of Form MA-100, Annual Survey of Manufactures)	$
	b. Products of this establishment exported by your company including products of this establishment shipped to others for export, 1963. (Included in 3a, above)	$
Item 4	**Number of employees at this plant in 1963** (Same as your file copy of Form MA-100, Annual Survey of Manufactures, item 2, line h, 1963 column. The figure is an average of production workers plus all other employees.)	*(Number)*
Item 5	**Products of this establishment exported by your company in 1960** (Please be sure the figure posted for 1960 is consistent with the 1963 figure entered in item 3b, above. Make revision, if necessary.) →	*(Thousands of dollars)* $

FOR CENSUS USE ONLY						

Remarks

Name of person to contact regarding this report	Address *(Number and street, city, State, ZIP code)*	Telephone No.

CERTIFICATION – This report is substantially accurate and has been prepared in accordance with instructions.

Name of company	Address *(Number and street, city, State, ZIP code)*

Signature of authorized official	Title	Date

USCOMM-DC 30392 P-64

INSTRUCTIONS

INTRODUCTORY NOTE

We are conducting this survey to obtain statistics on the origin of exports of manufactured goods by States and smaller areas. This information is needed by various branches of government to assess the impact of foreign trade on the economy. If you have any questions about the survey, please write to the Bureau of the Census, Washington, D.C., 20233, referring to form MA-161 and to the 11-digit file number in the address box.

This survey is being conducted on an establishment or plant basis. This method of reporting is necessary so that export figures reported by each plant may be tabulated in the proper geographic area. A report is required for each establishment for which you received a preaddressed form. If additional forms are needed, please write to us, specifying the address of the establishment for which a blank form is required.

If the figures requested are not readily available from your records, carefully prepared estimates will be accepted.

DEFINITION OF EXPORTS

The following description of exports is consistent with definitions used in compiling official foreign trade statistics of the United States. It is provided as a guide for respondents. A manufacturer would be expected to report according to his own definitions except where major differences might be expected. In such cases, he would be expected to estimate rather than compile revised data from detailed records.[1]

Exports as understood in this survey include shipments from the United States to foreign countries of products which are not subjected to further manufacture, fabrication, or assembly in this country before being shipped abroad. Exports include shipments to foreign subsidiaries or divisions of your company and its affiliates. Sales to the United States Government for shipment abroad are considered an export if the products are for a foreign nation. They are not classified as an export if for use by the United States Armed Forces.

Sales (shipments) to customers in Canada are classified as exports. Shipments to Alaska and Hawaii are not exports. Shipments to Puerto Rico are not classified as exports.

Exports do not include products shipped to domestic customers or other plants of your company who will further manufacture, fabricate, or assemble them. Please note, however, that the breaking down of bulk shipments of your products into smaller lots or packages by a wholesale exporter or by other units of your company is not considered to be further manufacturing, processing, or assembly.

EXPORT VALUES

The export values to be reported on this form should be on the same basis as the values in item 3a, total shipments of the plant in 1963.

EXPORTS OF THE PRODUCTS OF THIS PLANT BY THIS FIRM (item 3b)

Item 3b will include—Export shipments of your products by this establishment and export shipments of the products of this establishment by or on order of other parts of your company or its affiliates such as sales branches, sales offices, warehouses, export offices, and export subsidiaries.

It will also include—Sales for export of your products to or on order of export firms, and other sales known to you to be for export. Also, sales to the United States Government in this country for shipment abroad under military and economic assistance programs.

1960 EXPORTS

The value of products shipped for export by this establishment in 1960 has been entered in item 5, wherever the 1960 report form could be precisely matched. Please be sure the figure posted for 1960 is consistent with the 1963 figure entered in item 3b. Make revision, if necessary.

If no figure has been posted but the 1960 export figure is readily available, please enter the 1960 figure in item 5, otherwise leave the item blank.

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[1] For example, some manufacturers are known to treat sales to Post Exchanges or to Puerto Rico differently than here described. These differences in most cases are not statistically significant.

Appendix E

AUTHORITY FOR CENSUS: TITLE 13, UNITED STATES CODE

(Codification of August 1954 amended by Acts of August 1957, September 1960, and June and October 1962)

Collection and publication: Five-year periods (131)

The Secretary shall take, compile, and publish censuses of manufactures, of mineral industries, and of other businesses . . . in the year 1954 and every fifth year thereafter, and each such census shall relate to the year immediately preceding the taking thereof: **Provided,** That the censuses of manufactures, of mineral industries, and of other businesses, including the distributive trades and service establishments, directed to be taken in the year 1954 relating to the year 1953, shall be taken instead in the year 1955 relating to the year 1954.

Geographic scope of censuses (191a)

Each of the censuses authorized by this chapter (other than censuses of population) shall include each State, the District of Columbia, Alaska, Hawaii, the Virgin Islands, Guam, and the Commonwealth of Puerto Rico, and as may be determined by the Secretary, such other possessions and areas over which the United States exercises jurisdiction, control, or sovereignty. Censuses of population shall include all geographic areas referred to in the preceding sentence. Inclusion of other areas over which the United States exercises jurisdiction or control shall be subject to the concurrence of the Secretary of State.

Failure to answer questions affecting companies, businesses, religious bodies, and other organizations: False answers (224)

Whoever, being the owner, official, agent, person in charge, or assistant to the person in charge, of any company, business, institution, establishment, religious body, or organization of any nature whatsoever, neglects or refuses, when requested by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, whether such request be made by registered mail, by certified mail, by telegraph, by visiting representative, or by one or more of these methods, to answer completely and correctly to the best of his knowledge all questions relating to his company, business, institution, establishment, religious body, or other organization, or to records or statistics in his official custody, contained on any census or other schedule prepared and submitted to him under the authority of this title, shall be fined not more than $500 or imprisoned not more than sixty days, or both; and if he willfully gives a false answer to any such question, he shall be fined not more than $10,000 or imprisoned not more than one year, or both.

Appendix F

STANDARD METROPOLITAN STATISTICAL AREAS

(Area titles and definitions of the 2 Standard Consolidated Areas and the 217 Standard Metropolitan Statistical Areas in the United States established by the Bureau of the Budget as of August 4, 1964)

Chicago, Ill.-Northwestern Indiana Standard Consolidated Area	Consists of Chicago, Ill., and Gary-Hammond-East Chicago, Ind., Standard Metropolitan Statistical Areas
New York, N.Y.-Northeastern New Jersey Standard Consolidated Area	Consists of the following Standard Metropolitan Statistical Areas: New York, N.Y.; Newark, N.J.; Jersey City, N.J.; Paterson-Clifton-Passaic, N.J.; and of Middlesex and Somerset Counties, N.J.
Abilene, Tex.	Consists of Jones and Taylor Counties, Tex.
Akron, Ohio	Consists of Portage and Summit Counties, Ohio
Albany, Ga.	Coextensive with Dougherty County, Ga.
Albany-Schenectady-Troy, N.Y.	Consists of Albany, Rensselaer, Saratoga, and Schenectady Counties, N.Y.
Albuquerque, N. Mex.	Coextensive with Bernalillo County, N. Mex.
Allentown-Bethlehem-Easton, Pa.-N.J.	Consists of Lehigh and Northampton Counties, Pa.; and Warren County, N.J.
Altoona, Pa.	Coextensive with Blair County, Pa.
Amarillo, Tex.	Consists of Potter and Randall Counties, Tex.
Anaheim-Santa Ana-Garden Grove, Calif.	Coextensive with Orange County, Calif.
Ann Arbor, Mich.	Coextensive with Washtenaw County, Mich.
Asheville, N.C.	Coextensive with Buncombe County, N.C.
Atlanta, Ga.	Consists of Clayton, Cobb, De Kalb, Fulton, and Gwinnett Counties, Ga.
Atlantic City, N.J.	Coextensive with Atlantic County, N.J.
Augusta, Ga.-S.C.	Consists of Richmond County, Ga., and Aiken County, S.C.
Austin, Tex.	Coextensive with Travis County, Tex.
Bakersfield, Calif.	Coextensive with Kern County, Calif.
Baltimore, Md.	Consists of Baltimore city and Anne Arundel, Baltimore, Carroll, and Howard Counties, Md.
Baton Rouge, La.	Coextensive with East Baton Rouge Parish, La.
Bay City, Mich.	Coextensive with Bay County, Mich.
Beaumont-Port Arthur, Tex.	Consists of Jefferson and Orange Counties, Tex.
Billings, Mont.	Coextensive with Yellowstone County, Mont.
Binghamton, N.Y.-Pa.	Consists of Broome and Tioga Counties, N.Y., and Susquehanna County, Pa.
Birmingham, Ala.	Coextensive with Jefferson County, Ala.
Boise City, Idaho	Coextensive with Ada County, Idaho
Boston, Mass.	Consists of all of Suffolk County; Beverly, Lynn, Peabody, and Salem cities, and Danvers, Hamilton, Lynnfield, Manchester, Marblehead, Middleton, Nahant, Saugus, Swampscott, Topsfield, and Wenham towns in Essex County; Cambridge, Everett, Malden, Medford, Melrose, Newton, Somerville, Waltham, and Woburn cities, and Arlington, Ashland, Bedford, Belmont, Burlington, Concord, Framingham, Lexington, Lincoln, Natick, North Reading, Reading, Sherborn, Stoneham, Sudbury, Wakefield, Watertown, Wayland, Weston, Wilmington, and Winchester towns in Middlesex County; Quincy city, and Braintree, Brookline, Canton, Cohasset, Dedham, Dover, Holbrook, Medfield, Millis, Milton, Needham, Norfolk, Norwood, Randolph, Sharon, Walpole, Wellesley, Westwood, and Weymouth towns in Norfolk County; and Duxbury, Hanover, Hingham, Hull, Marshfield, Norwell, Pembroke, Rockland, and Scituate towns in Plymouth County, Mass.
Bridgeport, Conn	Consists of Bridgeport and Shelton cities, and Easton, Fairfield, Monroe, Stratford, and Trumbull towns in Fairfield County; and Milford town in New Haven County, Conn.
Brockton, Mass.	Consists of Easton town in Bristol County; Avon and Stoughton towns in Norfolk County; and Brockton city, and Abington, Bridgewater, East Bridgewater, Hanson, West Bridgewater, and Whitman towns in Plymouth County, Mass.
Brownsville-Harlingen-San Benito, Tex.	Coextensive with Cameron County, Tex.
Buffalo, N.Y.	Consists of Erie and Niagara Counties, N.Y.
Canton, Ohio	Coextensive with Stark County, Ohio
Cedar Rapids, Iowa	Coextensive with Linn County, Iowa
Champaign-Urbana, Ill.	Coextensive with Champaign County, Ill.
Charleston, S.C.	Consists of Berkeley and Charleston Counties, S.C.
Charleston, W. Va.	Coextensive with Kanawha County, W. Va.
Charlotte, N.C.	Consists of Mecklenburg and Union Counties, N.C.
Chattanooga, Tenn.-Ga.	Consists of Hamilton County, Tenn., and Walker County, Ga.

STANDARD METROPOLITAN STATISTICAL AREAS—Continued

Chicago, Ill.	Consists of Cook, Du Page, Kane, Lake, McHenry, and Will Counties, Ill.
Cincinnati, Ohio-Ky.-Ind.	Consists of Clermont, Hamilton, and Warren Counties, Ohio; Boone, Campbell, and Kenton Counties, Ky.; and Dearborn County, Ind.
Cleveland, Ohio	Consists of Cuyahoga, Geauga, Lake, and Medina Counties, Ohio
Colorado Springs, Colo.	Coextensive with El Paso County, Colo.
Columbia, S.C.	Consists of Lexington and Richland Counties, S.C.
Columbus, Ga.-Ala.	Consists of Chattahoochee and Muscogee Counties, Ga., and Russell County, Ala.
Columbus, Ohio	Consists of Delaware, Franklin, and Pickaway Counties, Ohio
Corpus Christi, Tex.	Coextensive with Nueces County, Tex.
Dallas, Tex.	Consists of Collin, Dallas, Denton, and Ellis Counties, Tex.
Davenport-Rock Island-Moline, Iowa-Ill.	Consists of Scott County, Iowa, and Henry and Rock Island Counties, Ill.
Dayton, Ohio.	Consists of Greene, Miami, Montgomery, and Preble Counties, Ohio
Decatur, Ill.	Coextensive with Macon County, Ill.
Denver, Colo.	Consists of Adams, Arapahoe, Boulder, Denver, and Jefferson Counties, Colo.
Des Moines, Iowa	Coextensive with Polk County, Iowa
Detroit, Mich.	Consists of Macomb, Oakland, and Wayne Counties, Mich.
Dubuque, Iowa	Coextensive with Dubuque County, Iowa
Duluth-Superior, Minn.-Wis.	Consists of St. Louis County, Minn., and Douglas County, Wis.
Durham, N.C.	Coextensive with Durham County, N.C.
El Paso, Tex.	Coextensive with El Paso County, Tex.
Erie, Pa.	Coextensive with Erie County, Pa.
Eugene, Oreg.	Coextensive with Lane County, Oreg.
Evansville, Ind.-Ky.	Consists of Vanderburgh and Warrick Counties, Ind., and Henderson County, Ky.
Fall River, Mass.-R.I.	Consists of Fall River city, and Somerset, Swansea, and Westport towns in Bristol County, Mass.; and Tiverton town in Newport County, R.I.
Fargo-Moorhead, N. Dak.-Minn.	Consists of Cass County, N. Dak., and Clay County, Minn.
Fitchburg-Leominster, Mass.	Consists of Shirley and Townsend towns in Middlesex County; and Fitchburg and Leominster cities, and Lunenburg and Westminster towns in Worcester County, Mass.
Flint, Mich.	Consists of Genesee and Lapeer Counties, Mich.
Fort Lauderdale-Hollywood, Fla.	Coextensive with Broward County, Fla.
Fort Smith, Ark.-Okla.	Consists of Crawford and Sebastian Counties, Ark.; and LeFlore and Sequoyah Counties, Okla.
Fort Wayne, Ind.	Coextensive with Allen County, Ind.
Fort Worth, Tex.	Consists of Johnson and Tarrant Counties, Tex.
Fresno, Calif.	Coextensive with Fresno County, Calif.
Gadsden, Ala.	Coextensive with Etowah County, Ala.
Galveston-Texas City, Tex.	Coextensive with Galveston County, Tex.
Gary-Hammond-East Chicago, Ind.	Consists of Lake and Porter Counties, Ind.
Grand Rapids, Mich.	Consists of Kent and Ottawa Counties, Mich.
Great Falls, Mont.	Coextensive with Cascade County, Mont.
Green Bay, Wis.	Coextensive with Brown County, Wis.
Greensboro-High Point, N.C.	Coextensive with Guilford County, N.C.
Greenville, S.C.	Consists of Greenville and Pickens Counties, S.C.
Hamilton-Middletown, Ohio	Coextensive with Butler County, Ohio
Harrisburg, Pa.	Consists of Cumberland, Dauphin, and Perry Counties, Pa.
Hartford, Conn.	Consists of Hartford city, and Avon, Bloomfield, Canton, East Granby, East Hartford, East Windsor, Enfield, Farmington, Glastonbury, Granby, Manchester, Newington, Rocky Hill, Simsbury, South Windsor, Suffield, West Hartford, Wethersfield, Windsor, and Windsor Locks towns in Hartford County; Cromwell town in Middlesex County; and Andover, Bolton, Coventry, Ellington, and Vernon towns in Tolland County, Conn.
Honolulu, Hawaii	Coextensive with Honolulu County, Hawaii
Houston, Tex.	Coextensive with Harris County, Tex.
Huntington-Ashland, W. Va.-Ky.-Ohio	Consists of Cabell and Wayne Counties, W. Va.; Boyd County, Ky.; and Lawrence County, Ohio
Huntsville, Ala.	Consists of Limestone and Madison Counties, Ala.
Indianapolis, Ind.	Consists of Hamilton, Hancock, Hendricks, Johnson, Marion, Morgan, and Shelby Counties, Ind.
Jackson, Mich.	Coextensive with Jackson County, Mich.
Jackson, Miss.	Consists of Hinds and Rankin Counties, Miss.
Jacksonville, Fla.	Coextensive with Duval County, Fla.
Jersey City, N.J.	Coextensive with Hudson County, N.J.

STANDARD METROPOLITAN STATISTICAL AREAS—Continued

Johnstown, Pa.	Consists of Cambria and Somerset Counties, Pa.
Kalamazoo, Mich.	Coextensive with Kalamazoo County, Mich.
Kansas City, Mo.-Kans.	Consists of Cass, Clay, Jackson, and Platte Counties, Mo., and Johnson and Wyandotte Counties, Kans.
Kenosha, Wis.	Coextensive with Kenosha County, Wis.
Knoxville, Tenn.	Consists of Anderson, Blount, and Knox Counties, Tenn.
Lafayette, La.	Coextensive with Lafayette Parish, La.
Lake Charles, La.	Coextensive with Calcasieu Parish, La.
Lancaster, Pa.	Coextensive with Lancaster County, Pa.
Lansing, Mich.	Consists of Clinton, Eaton, and Ingham Counties, Mich.
Laredo, Tex.	Coextensive with Webb County, Tex.
Las Vegas, Nev.	Coextensive with Clark County, Nev.
Lawrence-Haverhill, Mass.-N.H.	Consists of Lawrence and Haverhill cities, and Andover, Georgetown, Groveland, Merrimac, Methuen, North Andover, and West Newbury towns in Essex County, Mass.; and Newton, Plaistow, and Salem towns in Rockingham County, N.H.
Lawton, Okla.	Coextensive with Comanche County, Okla.
Lewiston-Auburn, Maine	Consists of Auburn and Lewiston cities, and Lisbon town in Androscoggin County, Maine
Lexington, Ky.	Coextensive with Fayette County, Ky.
Lima, Ohio.	Coextensive with Allen County, Ohio
Lincoln, Nebr.	Coextensive with Lancaster County, Nebr.
Little Rock-North Little Rock, Ark.	Coextensive with Pulaski County, Ark.
Lorain-Elyria, Ohio	Coextensive with Lorain County, Ohio
Los Angeles-Long Beach, Calif.	Coextensive with Los Angeles County, Calif.
Louisville, Ky.-Ind.	Consists of Jefferson County, Ky., and Clark and Floyd Counties, Ind.
Lowell, Mass.	Consists of Lowell city, and Billerica, Chelmsford, Dracut, Tewksbury, Tyngsborough, and Westford towns in Middlesex County, Mass.
Lubbock, Tex.	Coextensive with Lubbock County, Tex.
Lynchburg, Va.	Consists of Lynchburg city, and Amherst and Campbell Counties, Va.
Macon, Ga.	Consists of Bibb and Houston Counties, Ga.
Madison, Wis.	Coextensive with Dane County, Wis.
Manchester, N.H.	Consists of Manchester city, and Bedford and Goffstown towns in Hillsborough County; and Hooksett town in Merrimack County, N.H.
Memphis, Tenn.-Ark.	Consists of Shelby County, Tenn., and Crittenden County, Ark.
Meriden, Conn.	Coextensive with Meriden city in New Haven County, Conn.
Miami, Fla.	Coextensive with Dade County, Fla.
Midland, Tex.	Coextensive with Midland County, Tex.
Milwaukee, Wis.	Consists of Milwaukee, Ozaukee, and Waukesha Counties, Wis.
Minneapolis-St. Paul, Minn.	Consists of Anoka, Dakota, Hennepin, Ramsey, and Washington Counties, Minn.
Mobile, Ala.	Consists of Baldwin and Mobile Counties, Ala.
Monroe, La.	Coextensive with Ouachita Parish, La.
Montgomery, Ala.	Consists of Elmore and Montgomery Counties, Ala.
Muncie, Ind.	Coextensive with Delaware County, Ind.
Muskegon-Muskegon Heights, Mich.	Coextensive with Muskegon County, Mich.
Nashville, Tenn.	Consists of Davidson, Sumner, and Wilson Counties, Tenn.
New Bedford, Mass.	Consists of New Bedford city, and Acushnet, Dartmouth, and Fairhaven towns in Bristol County; and Marion and Mattapoisett towns in Plymouth County, Mass.
New Britain, Conn.	Consists of New Britain city, and Berlin, Plainville, and Southington towns in Hartford County, Conn.
New Haven, Conn.	Consists of New Haven city, and Bethany, Branford, East Haven, Guilford, Hamden, North Branford, North Haven, Orange, West Haven, and Woodbridge towns in New Haven County, Conn.
New London-Groton-Norwich, Conn.	Consists of New London and Norwich cities, and East Lyme, Griswold, Groton, Ledyard, Lisbon, Montville, Old Lyme, Preston, Sprague, Stonington, and Waterford towns in New London County, Conn.
New Orleans, La.	Consists of Jefferson, Orleans, St. Bernard, and St. Tammany Parishes, La.
New York, N.Y.	Consists of New York City, and Nassau, Rockland, Suffolk, and Westchester Counties, N.Y.
Newark, N.J.	Consists of Essex, Morris, and Union Counties, N.J.
Newport News-Hampton, Va.	Consists of Newport News and Hampton cities, and York County, Va.
Norfolk-Portsmouth, Va.	Consists of Chesapeake, Norfolk, Portsmouth, and Virginia Beach cities, Va.

STANDARD METROPOLITAN STATISTICAL AREAS—Continued

Norwalk, Conn.	Consists of Norwalk city, and Westport and Wilton towns in Fairfield County, Conn.
Odessa, Tex.	Coextensive with Ector County, Tex.
Ogden, Utah	Coextensive with Weber County, Utah
Oklahoma City, Okla.	Consists of Canadian, Cleveland, and Oklahoma Counties, Okla.
Omaha, Nebr.-Iowa	Consists of Douglas and Sarpy Counties, Nebr., and Pottawattamie County, Iowa
Orlando, Fla.	Consists of Orange and Seminole Counties, Fla.
Paterson-Clifton-Passaic, N.J.	Consists of Bergen and Passaic Counties, N.J.
Pensacola, Fla.	Consists of Escambia and Santa Rosa Counties, Fla.
Peoria, Ill.	Consists of Peoria, Tazewell, and Woodford Counties, Ill.
Philadelphia, Pa.-N.J.	Consists of Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa., and Burlington, Camden, and Gloucester Counties, N.J.
Phoenix, Ariz.	Coextensive with Maricopa County, Ariz.
Pine Bluff, Ark.	Coextensive with Jefferson County, Ark.
Pittsburgh, Pa.	Consists of Allegheny, Beaver, Washington, and Westmoreland Counties, Pa.
Pittsfield, Mass.	Consists of Pittsfield city, and Dalton, Lanesborough, Lee, and Lenox towns in Berkshire County, Mass.
Portland, Maine	Consists of Portland, South Portland, and Westbrook cities, and Cape Elizabeth, Cumberland, Falmouth, Gorham, Scarborough, and Yarmouth towns in Cumberland County, Maine
Portland, Oreg.-Wash.	Consists of Clackamas, Multnomah, and Washington Counties, Oreg., and Clark County, Wash.
Providence-Pawtucket-Warwick, R.I.-Mass.	Consists of all of Bristol County; Warwick city, and Coventry, East Greenwich, and West Warwick towns in Kent County; Jamestown town in Newport County; Central Falls, Cranston, East Providence, Pawtucket, Providence, and Woonsocket cities, and Burrillville, Cumberland, Johnston, Lincoln, North Providence, North Smithfield, and Smithfield towns in Providence County; and Narragansett and North Kingstown towns in Washington County, R.I. Also, Attleboro city and North Attleborough, Rehoboth, and Seekonk towns in Bristol County, Mass.; Bellingham, Franklin, Plainville, and Wrentham towns in Norfolk County, Mass.; and Blackstone and Millville towns in Worcester County, Mass.
Provo-Orem, Utah	Coextensive with Utah County, Utah
Pueblo, Colo.	Coextensive with Pueblo County, Colo.
Racine, Wis.	Coextensive with Racine County, Wis.
Raleigh, N.C.	Coextensive with Wake County, N.C.
Reading, Pa.	Coextensive with Berks County, Pa.
Reno, Nev.	Coextensive with Washoe County, Nev.
Richmond, Va.	Consists of Richmond city, and Chesterfield, Hanover, and Henrico Counties, Va.
Roanoke, Va.	Consists of Roanoke city and Roanoke County, Va.
Rochester, N.Y.	Consists of Livingston, Monroe, Orleans, and Wayne Counties, N.Y.
Rockford, Ill.	Consists of Boone and Winnebago Counties, Ill.
Sacramento, Calif.	Consists of Placer, Sacramento, and Yolo Counties, Calif.
Saginaw, Mich.	Coextensive with Saginaw County, Mich.
St. Joseph, Mo.	Coextensive with Buchanan County, Mo.
St. Louis, Mo.-Ill.	Consists of St. Louis city, and Franklin, Jefferson, St. Charles, and St. Louis Counties, Mo.; and Madison and St. Clair Counties, Ill.
Salt Lake City, Utah	Consists of Davis and Salt Lake Counties, Utah
San Angelo, Tex.	Coextensive with Tom Green County, Tex.
San Antonio, Tex.	Consists of Bexar and Guadalupe Counties, Tex.
San Bernardino-Riverside-Ontario, Calif.	Consists of Riverside and San Bernardino Counties, Calif.
San Diego, Calif.	Coextensive with San Diego County, Calif.
San Francisco-Oakland, Calif.	Consists of Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties, Calif.
San Jose, Calif.	Coextensive with Santa Clara County, Calif.
Santa Barbara, Calif.	Coextensive with Santa Barbara County, Calif.
Savannah, Ga.	Coextensive with Chatham County, Ga.
Scranton, Pa.	Coextensive with Lackawanna County, Pa.
Seattle-Everett, Wash.	Consists of King and Snohomish Counties, Wash.
Shreveport, La.	Consists of Bossier and Caddo Parishes, La.
Sioux City, Iowa-Nebr.	Consists of Woodbury County, Iowa, and Dakota County, Nebr.
Sioux Falls, S. Dak.	Coextensive with Minnehaha County, S. Dak.
South Bend, Ind.	Consists of Marshall and St. Joseph Counties, Ind.
Spokane, Wash.	Coextensive with Spokane County, Wash.

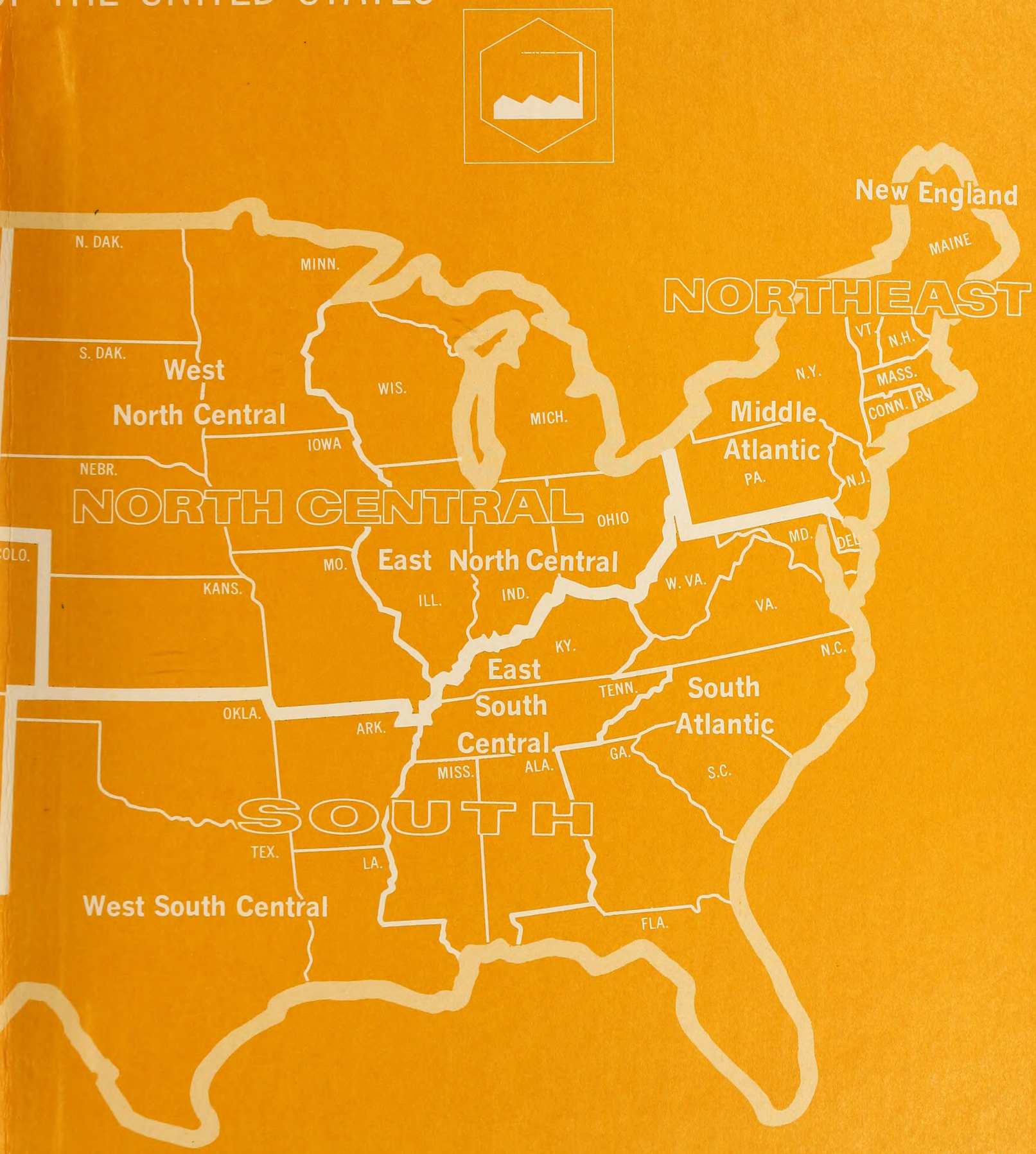
STANDARD METROPOLITAN STATISTICAL AREAS—Continued

Springfield, Ill.	Coextensive with Sangamon County, Ill.
Springfield, Mo.	Coextensive with Greene County, Mo.
Springfield, Ohio	Coextensive with Clark County, Ohio
Springfield-Chicopee-Holyoke, Mass.-Conn.	Consists of Chicopee, Holyoke, Springfield, and Westfield cities, and Agawam, East Longmeadow, Hampden, Longmeadow, Ludlow, Monson, Palmer, Southwick, West Springfield, and Wilbraham towns in Hampden County; Northampton city, and Easthampton, Granby, Hadley, and South Hadley towns in Hampshire County; and Warren town in Worcester County, Mass.; and Somers town in Tolland County, Conn.
Stamford, Conn.	Consists of Stamford city, and Darien, Greenwich, and New Canaan towns in Fairfield County, Conn.
Steubenville-Weirton, Ohio-W. Va.	Consists of Jefferson County, Ohio, and Brooke and Hancock Counties, W. Va.
Stockton, Calif.	Coextensive with San Joaquin County, Calif.
Syracuse, N.Y.	Consists of Madison, Onondaga, and Oswego Counties, N.Y.
Tacoma, Wash.	Coextensive with Pierce County, Wash.
Tampa-St. Petersburg, Fla.	Consists of Hillsborough and Pinellas Counties, Fla.
Terre Haute, Ind.	Consists of Clay, Sullivan, Vermillion, and Vigo Counties, Ind.
Texarkana, Tex.-Ark.	Consists of Bowie County, Tex., and Miller County, Ark.
Toledo, Ohio-Mich.	Consists of Lucas and Wood Counties, Ohio, and Monroe County, Mich.
Topeka, Kans.	Coextensive with Shawnee County, Kans.
Trenton, N.J.	Coextensive with Mercer County, N.J.
Tucson, Ariz.	Coextensive with Pima County, Ariz.
Tulsa, Okla.	Consists of Creek, Osage, and Tulsa Counties, Okla.
Tuscaloosa, Ala.	Coextensive with Tuscaloosa County, Ala.
Tyler, Tex.	Coextensive with Smith County, Tex.
Utica-Rome, N.Y.	Consists of Herkimer and Oneida Counties, N.Y.
Vallejo-Napa, Calif.	Consists of Napa and Solano Counties, Calif.
Waco, Tex.	Coextensive with McLennan County, Tex.
Washington, D.C.-Md.-Va.	Consists of Washington, D.C.; Montgomery and Prince Georges Counties, Md.; and Alexandria, Fairfax, and Falls Church cities, and Arlington and Fairfax Counties, Va.
Waterbury, Conn.	Consists of Thomaston, Watertown, and Woodbury towns in Litchfield County; and Waterbury city, Naugatuck borough, and Beacon Falls, Cheshire, Middlebury, Prospect, and Wolcott towns in New Haven, County, Conn.
Waterloo, Iowa	Coextensive with Black Hawk County, Iowa
West Palm Beach, Fla.	Coextensive with Palm Beach County, Fla.
Wheeling, W. Va.-Ohio	Consists of Marshall and Ohio Counties, W. Va., and Belmont County, Ohio
Wichita, Kans.	Consists of Butler and Sedgwick Counties, Kans.
Wichita Falls, Tex.	Consists of Archer and Wichita Counties, Tex.
Wilkes-Barre-Hazleton, Pa.	Coextensive with Luzerne County, Pa.
Wilmington, Del.-N.J.-Md.	Consists of New Castle County, Del., Salem County, N.J., and Cecil County, Md.
Winston-Salem, N.C.	Coextensive with Forsyth County, N.C.
Worcester, Mass.	Consists of Worcester city, and Auburn, Berlin, Boylston, Brookfield, East Brookfield, Grafton, Holden, Leicester, Millbury, Northborough, Northbridge, North Brookfield, Oxford, Paxton, Shrewsbury, Spencer, Sterling, Sutton, Upton, Westborough, and West Boylston towns in Worcester County, Mass.
York, Pa.	Consists of Adams and York Counties, Pa.
Youngstown-Warren, Ohio	Consists of Mahoning and Trumbull Counties, Ohio

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